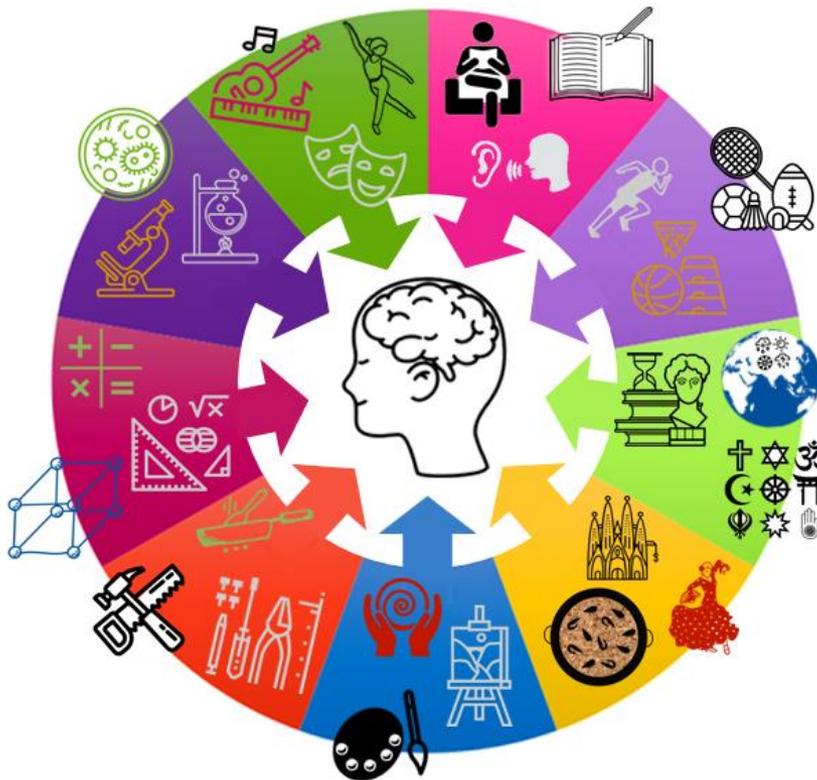


100% book - Year 11 Mainstream sets 1+2

Aim to memorise 100% of the knowledge on these Knowledge Organisers.

Term 2



Swindon Academy 2022-23

Name:

Tutor Group:

Tutor & Room:

"If you are not willing to learn, no one can help you.

If you are determined to learn, no one can stop you."

How to use your 100% book of Knowledge Organisers and Quizzable Organisers

Knowledge Organisers

Knowledge Organisers contain the essential knowledge that you **MUST** know in order to be successful this year and in all subsequent years.

They will help you learn, revise and retain what you have learnt in lessons in order to move the knowledge from your short-term memory to long-term memory.

Quizzable Knowledge Organisers

These are designed to help you quiz yourself on the essential Knowledge.

Use them to test yourself or get someone else to test you, until you are confident you can recall the information from memory.

Top Tip

Don't write on your Quizzable Knowledge Organisers! Quiz yourself by writing the missing words in your prep book. That way you can quiz yourself again and again!

Expectations for Prep and for using your Knowledge Organisers

1. Complete all prep work set in your subject prep book.
2. Bring your prep book to every lesson and ensure that you have completed all work by the deadline.
3. Take pride in your prep book – keep it neat and tidy.
4. Present work in your prep book to the same standard you are expected to do in class.
5. Ensure that your use of SPAG is accurate.
6. Write in blue or black pen and sketch in pencil.
7. Ensure every piece of work has a title and date.
8. Use a ruler for straight lines.
9. If you are unsure about the prep, speak to your teacher.
10. Review your prep work in green pen using the mark scheme.

How do I complete Knowledge Organiser Prep?

Step 1

Check Epraise and identify what words /definitions/facts you have been asked to learn. Find the Knowledge Organiser you need to use.

The image shows a screenshot of the Epraise website. On the left is a 'Planner' for the week of 20th May to 26th May 2020, with a grid for different subjects. On the right is a 'Knowledge Organiser' for 'Particle Theory'. It contains various sections: 'What is particle theory?', 'What is the law of conservation of mass?', 'What are the different states of matter?', 'What are the differences between the states of matter?', and 'What are the differences between the states of matter?'. There are also diagrams of particle arrangements for solid, liquid, and gas.

Step 2

Write today's date and the title from your Knowledge Organiser in your Prep Book.

The image shows a printed page from a knowledge organiser. The date '29th May 2020' and the title 'Particle theory' are handwritten in blue ink at the top. The page contains several sections: 'A. What is particle theory?' (The theory that all matter is made up of particles), 'A. What is the law of conservation of mass?' (The Law of Conservation of Mass states that mass cannot be created or destroyed), 'B. What are the different changes of state?' (Melting, Freezing, Evaporation, Condensation), and 'What are the differences between the states of matter?' (Solid, Liquid, Gas). There are also diagrams of particle arrangements for solid, liquid, and gas.

Step 3

Write out the keywords/definitions/facts from your Knowledge Organiser in FULL.

The image shows handwritten notes on lined paper. The date '29th May 2020' is written at the top. The title 'Properties of the states of matter' is underlined. The notes define 'Particle theory = all matter is made of particles'. It then lists the states of matter: 'Solid = regular pattern particles vibrate in fixed position', 'Liquid = particles are arranged randomly but are still touching each other Particles can slide past each other and move around.', and 'Gas = Particles are far apart and are arranged randomly. Particles carry a lot of energy'.

Step 4

Read the keywords/definitions/facts out loud to yourself again and again and write the keywords/definitions/facts at least 3 times.

The image shows handwritten notes on lined paper. The definition 'Solid = regular pattern particles vibrate in fixed position' is written three times in blue ink.

Step 5

Open your quizzable Knowledge Organiser. Write the missing words from your quizzable Knowledge organiser in your prep book.

The image shows a printed page from a quizzable knowledge organiser. The date '29th May 2020' and the title 'Particle theory' are handwritten. The page contains several sections: 'A. What is particle theory?', 'A. What is the law of conservation of mass?', 'B. What are the different changes of state?', and 'What are the differences between the states of matter?'. The answers to the questions are handwritten in blue ink: 'Self quizzing', 'Arrangement/movement of matter', 'Solid = regular pattern particles vibrate in fixed position', 'Liquid = particles are arranged randomly but are still touching each other Particles can slide past each other and move around.', and 'Gas = particles are far apart and are arranged randomly. Particles carry a lot of energy'.

Step 6

Check your answers using your Knowledge Organiser. Repeat Steps 3 to 5 with any questions you got wrong until you are confident.

The image shows handwritten notes on lined paper. The date '29th May 2020' is written at the top. The title 'Particle theory = all matter is made of particles' is underlined. The notes define the states of matter: 'Solid = regular pattern particles vibrate in fixed position', 'Liquid = particles are arranged randomly but are still touching each other Particles can slide past each other and move around.', and 'Gas = Particles are far apart and are arranged randomly. Particles carry a lot of energy'. There are checkmarks and corrections in blue ink.

Make sure you bring in your completed Prep notes to demonstrate that you have completed your prep.

Year 11 English: ENGLISH –ENGLISH –Poetry cluster 2: The Problem with Power- Sets 2-5

Key Vocabulary		Poem	Context	Events in the poem	Message	Form/ structure
Patriotism	Being devoted to your country	Kamikaze-Beatrice Garland	<ul style="list-style-type: none"> During WW2, the term 'kamikaze' was used for Japanese fighter pilots who were sent on suicide missions. They were expected to crash their planes into enemy warships. The word 'kamikaze' literally translates as 'divine wind'. Flying a kamikaze mission was portrayed as a great honour by the Japanese government. It was claimed that there were many volunteers, although some have argued that not every kamikaze soldier would have been willing. By the end of the war, nearly 4,000 kamikaze pilots had died. 	<ul style="list-style-type: none"> The narrator of this poem is a kamikaze pilot's daughter. Unlike many of his comrades, this pilot turns back from his target and returns home. The poem explores the moment that the pilot's decision is made and sketches out the consequences for him over the rest of his life. Not only is he shunned by his neighbours, but his wife refuses to speak to him or look him in the eye. His children gradually learn that he is not to be spoken to and begin to isolate and reject him. 	<ul style="list-style-type: none"> The poem explores the conflict between personal and national duty and suggests that individual desire and extreme patriotism cannot be achieved together. Through the pilot, Garland may be expressing how it is not honour that gives life meaning, but rather being with loved ones. The poem explores the impossible situation that the pilots were put in by those in power- dying in glory or being shamed and rejected by your family. It also deals with the lasting effects that war can inflict on people, families, and communities. This poem not only deals with the kamikaze pilot's own story, but the implications for those around him. 	Kamikaze is a narrative poem. It begins as a report, summarising another conversation or story told by someone else. Sections of the poem are presented in italics as first-person narrative, where the storyteller speaks directly for herself. This has the effect of heightening the sense of sadness she feels.
	Colonialism					
Dominate	To have power and influence over others	Checking Out Me History- John Agard	<ul style="list-style-type: none"> Since the early 17th century, the country of Guyana has been colonised and controlled by the Dutch, French and British. The indigenous population spoke Arawak, but the British introduced English as the language of the government, courts and education system. For centuries, nations would repress the culture and identity of the countries that they colonised. They did this to control the population and get rid of any rebellion against the colonisers. Born in Guyana in 1949, Agard moved to Britain in 1977 and sees the culture as both an insider from living there and an outsider from moving to Britain 	<ul style="list-style-type: none"> The poem focuses on the omission of indigenous history and discusses how colonized people were forced to learn about <i>British</i> history—which had little to do with their actual lives. Not only does the poem call attention to the oppressive nature of colonial education, but it also praises important figures who were left out—figures such as Toussaint L'Ouverture, the leader of the Haitian revolution. The poem suggests the curriculum deliberately blinded colonized people to their own histories, and argues that in order to understand their own identity they must learn their own history. 	<ul style="list-style-type: none"> Knowledge should not be denied to anyone. No one has the right to oppress others by denying them facts about their past. This can lead to feelings of inferiority and there should be more equality in the world. History is important and there is power in knowing your heritage and culture. People should never exclude this from you – especially if it is replaced with less relevant examples. There is a sense of caution in this poem in relation to believing what you are told. We are reminded that we should always seek the truth for ourselves and question what others choose to teach us. The education system has power to mould our thinking and we should be aware of this. There is a warning that, when people are denied knowledge, they can become bitter and angry, and this could lead to rebellion, protests and uprisings. 	The open form highlights Agard's rebellion against the status quo and the restrictions of a colonial curriculum. His use of italics separates and celebrates the important historical figures from the history he was a taught. The sing-song rhyme scheme holds a bitterness and anger that he was taught trivial things whilst his own history was omitted.
	Defiance					
Isolated	To be far away from other people or places.	The Émigrée-Carol Rumens	<ul style="list-style-type: none"> Carol Rumens was born in South London in 1944 Published her own poems and translations of Russian poems She has a 'fascination with elsewhere' The Émigrée is not autobiographical poem, but is inspired by living in London (a diverse society) The poem sympathises with people who have been exiled Emigrants are people who have left the country of their birth to settle elsewhere in the world. 	<ul style="list-style-type: none"> A displaced person pictures the country and the city where they were born. The city and country are never named in order to increase the relevancy to as many people who have left their homelands as possible. The speaker's home country appears to be war-torn, or under the control of a dictatorial government that has banned the language the speaker once knew. Despite this, the émigrée's childhood memories are filled with light and happiness. Though there is a clear sense of fondness for the place, there is also a more threatening tone in the poem, suggesting that not all of her memories are happy and that the country she has emigrated to is not always welcoming. 	<ul style="list-style-type: none"> Rumens presents the importance of empathy and sympathy. She reminds us of how traumatic conflict can be and that people are forced to make heart-breaking decisions when they live under cruel leadership. The poem highlights the importance of belonging and is a celebration of diversity – we should make people feel welcome when they move to a new home. Memories are shown to be powerful and to have a strong hold over us with the ability to bring both pain and comfort. The past can be difficult to escape and can restrict us from moving forward in life. There is also a sense of the power of the media – their portrayal of immigrants can lead to a lack of sympathy in society; it is important we do not become insensitive to the pain that can lead to people moving to a new home. 	The use of enjambment reflects the chaos and confusion of her situation. The poem consists of two stanzas with eight lines and a third stanza with nine lines. The added line in the final stanza could suggest she doesn't want to let her memories go, stop writing about her homeland or give up her past.
	Dictatorial					
Nostalgia	A warm feeling for the past, particularly a very happy time	Storm on the Island-Seamus Heaney	<ul style="list-style-type: none"> For many centuries, there has been conflict in Northern Ireland. The majority of Northern Ireland's population were unionists, who wanted to remain within the United Kingdom. Most of these were Protestant Christians. Seamus Heaney was a Catholic born in Northern Ireland in 1939. Catholics were seen as the underclass and were discriminated against by the government and police. This resulted in strong political and guerrilla warfare movements in an attempt to overthrow British rule and re-unite Ireland. 	<ul style="list-style-type: none"> There are two interpretations of this poem- literal and metaphorical. Literal: The narrator describes how well prepared they are for the storm. The storm attacks the island. As the poem progresses, the narrator's confidence decreases, and they begin to worry. Metaphorical: Heaney uses the storm as a metaphor for the conflict in Northern Ireland. The 'islanders' suffer under enemy occupation with quiet resignations. 	<ul style="list-style-type: none"> Heaney portrays nature as a powerful force that humans should fear and not attempt to control. Heaney presents the idea that life under constant enemy occupation can leave people accepting this presence with sadness, but stop trying to do anything about it. He warns that the enemy can appear reasonable, but can quickly turn in to a dangerous threat – this threat may not always be physical; the gradual erosion of human rights and liberties is just as perilous. 	Heaney's use of iambic pentameter may appear strange given its use in traditional British poems. However he subverts the traditional structure by swapping the stressed and unstressed syllables on certain lines, resisting the regularity of British control.
	Fragility					
enjambment	he continuation of a sentence without a pause beyond the end of a line	Tissue-Imtiaz Dharker	<ul style="list-style-type: none"> Imtiaz Dharker was born in Pakistan but grew up in Scotland. Her poetry often deals with themes of identity, the role of women in society and the search for meaning. Tissue is from her poetry collection called 'The terrorist at my table'. Most of the poems in that collection relate to religion, terrorism and global politics. 	<ul style="list-style-type: none"> Tissue explores the varied uses of paper and how they relate to life. It is written from the point of view of someone looking out at the conflict and troubles of the modern world; destruction, war and politics, money and wealth as well as issues like terrorism and identity. The poem remarks how nothing is meant to last. 	<ul style="list-style-type: none"> Human power is ephemeral. No matter how much we try to build structures to display our power, nature will always outlast it. Our relationship with paper is unhealthy. We rely on it too much to make records, document ownership and build debt. Instead, we should realise that the significance of human life will outlast the records we make of it on paper or in buildings. Human life is fragile, and not everything can last. We must understand our fragility and should not try to build our lives through making recordings or building with blocks and bricks, we should focus on living. 	The poem has an irregular structure and no rhyme scheme reflecting the irregularity of life and the lack of predictability. The fragile structure is symbolic of the fragile nature of our lives.
	Empheral					

Year 11 English: ENGLISH –ENGLISH –Poetry cluster 2: The Problem with Power- Sets 2-5

Key Vocabulary		Poem	Context	Events in the poem	Message	Form/ structure
Patriotism		Kamikaze-Beatrice Garland	<ul style="list-style-type: none"> During WW2, the term 'kamikaze' was used for _____ who were sent on _____ missions. They were expected _____ . The word 'kamikaze' literally translates as _____ . Flying a kamikaze mission was portrayed as _____ by the Japanese government. It was claimed that there were many _____, although some have argued that not every kamikaze soldier would have been willing. By the end of the war, nearly _____ kamikaze pilots had died. 	<ul style="list-style-type: none"> The narrator of this poem is a _____ . Unlike many of his comrades, this pilot _____ from his target and _____ . The poem explores the _____ that the pilot's decision is made and sketches out the _____ . Not only is he _____, but his wife _____ . His children gradually learn that he is not to be spoken to and begin _____ . 	<ul style="list-style-type: none"> The poem explores the conflict between p _____ and _____ duty and suggests that _____ and extreme _____ cannot be _____ . Through the pilot, Garland may be expressing how it is _____ . The poem explores the _____ that the pilots were put in by those in _____ dying in glory or being sha _____ . It also deals with the _____ . This poem not only deals with the kamikaze pilot's own story, but the _____ . 	<p>Kamikaze is a narrative poem. It begins as a _____, summarising another conversation or story told by someone else. Sections of the poem are presented in i _____ s as fi _____ n narrative, where the storyteller speaks directly for herself. This has the effect of _____ .</p>
Dominant		Checking Out Me - History-John Agard	<ul style="list-style-type: none"> Since the early 17th century, the country of _____ has been colonised and controlled by the _____ h. The indigenous population spoke Arawak, but the British introduced English as the language of the government, courts and education system. For centuries, nations would repress _____ . They did this to _____ s. Born in Guyana in 1949, Agard moved to Britain in 1977 and sees the culture as both an insider from living there and an outsider from moving to Britain 	<ul style="list-style-type: none"> The poem focuses on the o _____ of _____ ory and discusses how colonized people were _____ . Not only does the poem call attention to the oppressive nature of colonial education, but it also praises _____ were left out—figures such as Toussaint L'Ouverture, the leader of the Haitian revolution. The poem suggests the curriculum deliberately _____ colonized people to their own _____ and argues that in order to understand their own identity they must _____ . 	<ul style="list-style-type: none"> Knowledge should not be d _____ to anyone. No one has the right to _____ by denying them _____ . This can lead to feelings of i _____ y and there should be more e _____ in the world. History is important and there is power in knowing your heritage and culture. People should never exclude this from you – especially if it is replaced with less relevant examples. There is a sense of caution in this poem in relation to believing what you are told. We are reminded that we should always _____ for ourselves and _____ what others choose to teach us. The education system has _____ to mould our thinking and we should be aware of this. There is a warning that, when people are _____, they can become _____, and this could lead to rebellion, protests and uprisings. 	<p>The open form highlights Agard's re _____ n against the _____ uo and the restrictions of a colonial curriculum. His use of italics separates and celebrates the important historical figures from the history he was a taught. The sing-song rhyme scheme holds a bitterness and anger that he was taught trivial things whilst his own history was omitted.</p>
Defiance		The Émigrée - Carol Rumens	<ul style="list-style-type: none"> Carol Rumens was born in _____ . Published her own poems and translations of Russian poems She has a 'fascination with _____' . The Émigrée is not autobiographical poem, but is inspired by _____ (a _____ society) The poem sympathises with people who have been _____ . Emigrants are people who have _____ of their birth to settle _____ . 	<ul style="list-style-type: none"> A displaced person pictures the country and the city where _____ . The city and country are never named in order to increase the relevancy to _____ . The speaker's home country appears to be w _____ n, or _____ of a _____ that has banned the l _____ e the speaker once knew. Despite this, the émigrée's childhood memories are filled with _____ . Though there is a clear sense of fo _____ for the place, there is also a more th _____ ng tone in the poem, suggesting that not all of her _____ s are h _____ and that the country she has emigrated to is not always welcoming. 	<ul style="list-style-type: none"> Rumens presents the importance of _____ . She reminds us of how traumatic _____ can be and that people are forced to make heart-breaking decisions when they live under _____ . The poem highlights the importance of _____ g and is a celebration of _____ – we should make people feel _____ when they move to a new home. Memories are shown to be _____ and to have a strong hold over us with the ability to bring both pain and comfort. The past can be difficult to e _____ e and can restrict us from moving forward in life. There is also a sense of the power of the m _____ – their portrayal of immigrants can lead to a lack of _____ ; it is important we do not become i _____ to the _____ that can lead to people moving to a new home. 	<p>The use of _____ t reflects the _____ of her situation. The poem consists of _____ with eight lines and a third stanza with nine lines. The added line in the final stanza could suggest _____ .</p>
Dictatorial		Storm on the Island - Seamus Heaney	<ul style="list-style-type: none"> For many centuries, there has been conflict in _____ . The majority of Northern Ireland's population were _____ s, who wanted to _____ . Most of these were _____ . Seamus Heaney was _____ born in Northern Ireland in 1939. Catholics were seen as the _____ s and were _____ gainst by the government and police. This resulted in strong political and guerrilla warfare movements in an attempt to overthrow _____ . 	<ul style="list-style-type: none"> There are two interpretations of this poem- literal and metaphorical. Literal: _____ Metaphorical: _____ . 	<ul style="list-style-type: none"> Heaney portrays nature as a _____ . Heaney presents the idea that life under constant enemy occupation can _____ . He warns that the enemy can appear reasonable, but can quickly turn in to a dangerous threat – this threat may not always be physical; the gradual erosion of human rights and liberties is just as perilous. 	<p>Heaney's use of iambic pentameter may appear strange given its use in traditional British poems. However he subverts the traditional structure by swapping the stressed and unstressed syllables on certain lines, resisting the regularity of British control.</p>
Nostalgia		Tissue- Imtiaz Dharker	<ul style="list-style-type: none"> Imtiaz Dharker was born in Pakistan but grew up in _____ d. Her poetry often deals with themes of _____ . Tissue is from her poetry collection called _____ e'. Most of the poems in that collection relate to _____ . 	<ul style="list-style-type: none"> Tissue explores the varied uses of p _____ and how they relate _____ . It is written from the point of view of _____ ; destruction, war and politics, money and wealth as well as issues like terrorism and identity. The poem remarks how _____ . 	<ul style="list-style-type: none"> Human power is _____ l. No matter how much we try to build structures to display our power, nature will always _____ . Our relationship with paper _____ . We rely on it too much to make records, document ownership and build debt. Instead, we should realise that the significance of _____ will o _____ the records we make of it on paper or in buildings. Human life is _____ e, and not everything _____ . We must understand our fr _____ and should not try to build our lives through making recordings or building with blocks and bricks, we should focus on living. 	<p>The poem has an irr _____ r structure and no rhyme scheme reflecting the irr _____ of life and the lack of and _____ ty. The fragile structure is symbolic of the fragile nature of our lives.</p>
Fragility		Ephemeral				

1. Context	
<p>Writer: Charles Dickens (1812-1870)</p> <p>Dates: First published in 1843</p> <p>Genre: Allegorical; a ghost story.</p> <p>Era: Victorian</p> <p>Set: Victorian London</p> <p>Structure: The novella is divided into 5 staves (chapters).</p>	<p>Biography of Dickens</p> <ul style="list-style-type: none"> Born in Portsmouth in 1812 When Dickens was 12, his father was sent to debtors' prison as he was unable to pay his bills. His mother and youngest siblings were sent with him, whilst Dickens stayed with a family friend. In order to help his family, Dickens had to leave school and work in a factory sticking labels on bottles. Dickens dedicated his life to writing works that revealed the horrors of life in Victorian London for those living in poverty.
<p>Christmas: Dickens grew concerned that, due to capitalism, society had lost sight of traditional values (Christian morals, forgiveness, charity). He felt that Christmas was the perfect time to reconnect with these values and used his novella to do this. He also knew that Christmas would be a popular topic so it would sell well – therefore enabling his message to reach a wider audience.</p>	<p>London and inequality: Dickens juxtaposes scenes of middle-class comfort and poverty to emphasise the close proximity and contrast of the different classes. It highlights the Christian concept of 'love thy neighbour'. The urban setting allows Dickens to exercise his fondness for hyperbole, with the exaggerated extremes of poverty adding to the effect of the 'plight of the poor'.</p>
<p>The Poor Law, 1834</p> <p>In order to deter poor people from claiming financial help, the government made claimants live in workhouses: essentially, prisons for the poor. Dickens hated this law. He spent 1843 touring factories and mines in England and wished to highlight the situation facing poor people. A Christmas Carol was published soon after – in December 1843.</p>	<p>Malthusian Theory</p> <p>The reformation of The Poor Law was partially informed by the writings of Thomas Malthus. Malthus argued that if living standards increased, population would increase and eventually the number of people would be too great for the food that could be produced. As a result, Malthus argued it was important not to support the poor or improve their standards of living, but to allow them to die if they couldn't support themselves because charity would only prolong their suffering.</p>
<p>The Supernatural: Victorian society was fascinated by the supernatural, including mediums, ghosts, and spiritualism. However, this belief in the supernatural was also heavily influenced by the church, with the belief that ghosts were souls who were trapped in purgatory (a place of suffering where the souls of sinners were trapped).</p>	

2. Key Characters	
<p>Ebenezer Scrooge: The protagonist is initially established as an archetypal villain who dismisses the goodwill and generosity associated with Christmas. After being forced to transform, he feels remorse for his avarice and becomes a symbol of Christmas spirit. Scrooge embodies the relentless capitalist spirit of the time, but also demonstrates that everyone has the capacity to reform.</p>	
<p>Bob Cratchit: Bob is Scrooge's downtrodden but loyal employee. His family are a symbol of Victorian poverty, cheerfulness in adversity, togetherness and Christmas Spirit. Bob shows pity for Scrooge, and provides a contrast to Scrooge's isolation and meanness. His son, Tiny Tim, is an emblem for noble poverty; he accepts his disability without complaint.</p>	
<p>Fred: Fred juxtaposes the character of Scrooge and epitomises the concept of goodwill and forgiveness, refusing to be discouraged by his uncle's misery. People speak highly of Fred and his generosity, in contrast to how they speak of Scrooge. Fred shows that Scrooge has chosen isolation and shows forgiveness to Scrooge, welcoming him in Stave Five.</p>	
<p>Marley's Ghost: Marley's ghost is the spiritual representation of Scrooge's potential fate. The chains that drag him down symbolize the guilt caused by his failure to help people in need. Marley's ghost warns Scrooge that he too will experience the same guilt if he continues to deny people help.</p>	
<p>The ghosts: The Ghost of Christmas Past is a symbol of childhood, truth and enlightenment. The Ghost of Christmas Present represents goodwill, plenty and the festival of Christmas. The Ghost of Christmas Yet to Come symbolises a catastrophic future for mankind.</p>	
<p>Belle: The woman that Scrooge was engaged to when he was a young man. Belle's role is crucial in Scrooge's transformation, as the scenes show Scrooge what he might have had in his life if he had not been so avaricious. Through the character of Belle, Dickens sets emotional love directly against Scrooge's love of money and suggests that avarice can lead to a deprivation of kindness, love and empathy.</p>	
3. Central Themes	
<p>Social injustice</p>	<p>Dickens highlights the unfairness within society through the juxtaposition of the poor and wealthy. Through Scrooge's refusal to give to charity and his exclamation that the poor should be in workhouses or die, Dickens illustrates the selfishness of the higher classes and the injustice of wealth distribution in Victorian society. The children, Ignorance and Want, personify the dangerous consequences of allowing poverty to continue.</p>
<p>Transformation and redemption</p>	<p>By establishing Scrooge as an archetypal villain, Dickens is able to emphasise the idea that everyone is capable of transformation and redemption. From starting as a greedy, avaricious miser, Scrooge is able to reflect upon his actions and to understand that he must live his life helping others to avoid Marley's fate.</p>
<p>Social responsibility</p>	<p>Dickens felt that every individual had a responsibility for those around them. Marley's Ghost conveys the message of the novella when he cries, 'Mankind was my business' demonstrating that the proper 'business' of life is not about seeking financial reward but having concern for others. Dickens highlights the importance of trying to make a difference- whether that be large financial contributions (Scrooge), smaller contributions (Fezziwig) or simply showing compassion and kindness to one another.</p>

4. Key Vocabulary	
Avarice	Extreme greed of possessions or money
Salvation	Saving someone from harm or destruction
Miserly	someone who is greedy and does not like spending money
Callous	Mean or cruel
Antithesis	The exact opposite of something
Epiphany	A moment of sudden understanding
Redemption	The act of being saved or freed from sin or error
Benevolence	Kind and helpful towards others
Philanthropic	Showing concern for others by being charitable
Misanthropic	Someone who has a hatred for other people
Penitence	sincere regret for wrong or evil things that you have done
Remorse	a strong feeling of sadness and regret about something wrong that you have done
Deprivation	When someone is unable to have the things they need or want
Despotism	exercising power in a cruel and controlling way
Capitalism	A political system in which property, business, and industry are owned by private individuals and not by the government
5. Key Terminology, Symbols and Devices	
Stave	Chapters in the novella, but we normally associate staves with music, as if the book is a Christmas carol, and each chapter is part of the song. As Christmas carols are repetitive and easy to remember, it links to how Dicken's wishes his message to be remembered.
Intrusive Narrator	A narrator who interrupts the story to provide a commentary to the reader on some aspect of the story or on a more general topic. In 'A Christmas Carol' the narrator helps to shape our impressions of Scrooge.
Circular structure	Circular narratives cycle through the story one event at a time to end back where the story originated.
Allegory	A story that can be interpreted to reveal a hidden meaning, typically a moral or political one.
Allegorical figures	An allegorical figure is a character that serves two purposes: first, they are an important person in the story in their own right, and, second, they represent abstract meanings or ideas.
Foreshadowing	Foreshadowing is a literary device in which a writer gives an advance hint of what is to come later in the story.
Didactic	A type of literature that is written to inform or instruct the reader, especially in moral or political lessons.
Semantic Field	A set of words that are related in meaning. Dickens frequently uses semantic fields of warmth and coldness that are associated with the characters.

1. Context	
<p>Writer: _____ (1812-1870)</p> <p>Dates: First published in _____</p> <p>Genre: Allegorical; a ghost story.</p> <p>Era: _____</p> <p>Set: V _____ n London</p> <p>Structure: The novella is divided into _____ staves (chapters).</p>	<p>Biography of Dickens</p> <ul style="list-style-type: none"> Born in Portsmouth in 1812 When Dickens was 12, his father was sent to _____ n as he was unable to _____. His _____ were sent with him, whilst Dickens _____ . In order to help his family, Dickens had _____ school and work in a factory s _____. Dickens dedicated his life to writing works that revealed the _____.
<p>Christmas:</p> <p>Dickens grew concerned that, due to _____, society had lost sight of _____ (Christian morals, f _____). He felt that Christmas was the perfect time to _____ . He also knew that Christmas would be a popular topic so it would _____ – therefore enabling his message to reach a _____.</p>	<p>London and inequality:</p> <p>Dickens j _____ scenes of middle-class _____ and _____ to emphasise the close proximity and contrast of the different _____. It highlights the _____ concept of 'love _____'. The urban setting allows Dickens to exercise his fondness for h _____ e, with the exaggerated extremes of _____ adding to the effect of the 'plight of the poor'.</p>
<p>The Poor Law, 1834</p> <p>In order to deter poor people from claiming financial help, the government made claimants live in _____: essentially, _____.</p> <p>Dickens _____ this law. He spent 1843 touring _____ in England and wished to highlight the situation facing _____ people.</p>	<p>Malthusian Theory</p> <p>The reformation of The Poor Law was partially informed by the writings of Thomas Malthus. Malthus argued that if _____, population would i _____ and eventually the number of people would be _____. As a result, Malthus argued it was important not to _____ the poor or improve their standards of living, but to allow them to die _____.</p>
<p>The Supernatural: Victorian society was fascinated by the supernatural, including _____.</p> <p>However, this belief in the supernatural was also heavily influenced by the _____, with the belief that ghosts were _____ s who were trapped in purgatory (a place of suffering where the souls of sinners were trapped).</p>	

2. Key Characters	
<p>Ebenezer Scrooge: The protagonist is initially established as an _____ who dismisses the _____ and generosity associated with Christmas. After being forced to transform, he feels r _____ for his a _____ and becomes a s _____ l of Christmas spirit. Scrooge embodies the relentless capitalist spirit of the time, but also demonstrates that everyone has the capacity to reform.</p>	
<p>Bob Cratchit: Bob is Scrooge's d _____ but _____ employee. His family are a s _____ of Victorian poverty, c _____ in a _____, t _____ and Christmas Spirit. Bob shows pity for Scrooge, and provides a contrast to Scrooge's isolation and meanness. His son, Tiny Tim, is an emblem for noble poverty; he accepts his disability without complaint.</p>	
<p>Fred: Fred j _____ the character of Scrooge and e _____ the concept of g _____ and f _____, refusing to be discouraged by his uncle's misery. People speak _____ of Fred and his g _____, in contrast to how they speak of Scrooge. Fred shows that Scrooge has chosen isolation and shows forgiveness to Scrooge, welcoming him in Stave Five.</p>	
<p>Marley's Ghost: Marley's ghost is the s _____ representation of Scrooge's potential fate. The chains that drag him down s _____ the _____ caused by his f _____ to help people in _____. Marley's ghost warns Scrooge that he too will experience _____.</p>	
<p>The ghosts: The Ghost of Christmas Past is a symbol _____ The Ghost of Christmas Present represents _____. The Ghost of Christmas Yet to Come symbolises _____.</p>	
<p>Belle: The woman that Scrooge was engaged to when he was a young man. Belle's role is crucial in Scrooge's transformation, as the scenes show Scrooge what he might have had in his life if he had not been so avaricious. Through the character of Belle, Dickens sets emotional love directly against Scrooge's love of money and suggests that avarice can lead to a deprivation of kindness, love and empathy.</p>	

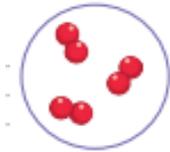
3. Central Themes	
<p>Social injustice</p>	<p>Dickens highlights the u _____ within society through the j _____ of the _____ and w _____. Through Scrooge's refusal to give to charity and his exclamation that the poor should be in workhouses or die, Dickens illustrates the se _____ of the higher _____ s and the i _____ e of wealth distribution in Victorian society.</p>
<p>Transformation and redemption</p>	<p>By establishing Scrooge as an archetypal v _____, Dickens is able to emphasise the idea that _____ . From starting as a greedy, avaricious miser, Scrooge is able to reflect upon his actions and to understand that he _____.</p>
<p>Social responsibility</p>	<p>Dickens felt that every individual had a re _____ . Marley's Ghost conveys the message of the novella when he _____, 'M _____ was my bu _____ s' demonstrating that the proper 'business' of life is not about seeking financial reward but having concern for others..</p>

4. Key Vocabulary	
	Extreme greed of possessions or money
	Saving someone from harm or destruction
	someone who is greedy and does not like spending money
	Mean or cruel
	The exact opposite of something
	A moment of sudden understanding
	The act of being saved or freed from sin or error
	Kind and helpful towards others
	Showing concern for others by being charitable
	Someone who has a hatred for other people
	sincere regret for wrong or evil things that you have done
	a strong feeling of sadness and regret about something wrong that you have done
	When someone is unable to have the things they need or want
	exercising power in a cruel and controlling way
	A political system in which property, business, and industry are owned by private individuals and not by the government

5. Key Terminology, Symbols and Devices	
	Chapters in the novella, but we normally associate staves with music, as if the book is a Christmas carol, and each chapter is part of the song. As Christmas carols are repetitive and easy to remember, it links to how Dicken's wishes his message to be remembered.
	A narrator who interrupts the story to provide a commentary to the reader on some aspect of the story or on a more general topic. In 'A Christmas Carol' the narrator helps to shape our impressions of Scrooge.
	Circular narratives cycle through the story one event at a time to end back where the story originated.
	A story that can be interpreted to reveal a hidden meaning, typically a moral or political one.
	An allegorical figure is a character that serves two purposes: first, they are an important person in the story in their own right, and, second, they represent abstract meanings or ideas.
	Foreshadowing is a literary device in which a writer gives an advance hint of what is to come later in the story.
	A type of literature that is written to inform or instruct the reader, especially in moral or political lessons.
	A set of words that are related in meaning. Dickens frequently uses semantic fields of warmth and coldness that are associated with the characters.

Pure substances

Pure = single element or compound – not mixed with any other substance.



Testing to see if a substance is pure:

- Pure substances have specific melting and boiling points

- Compare your data to a library of known values.

E.g. Water has a boiling point of 100°C, if it is above or below this, it is not pure.

Formulations

Formulation = a mixture that is designed as a useful product.

- Components mixed carefully to get the required **properties**.

Examples of formulations:

- Fuels
- Cleaning agents
- Paints
- Medicines
- Alloys
- Fertilisers
- Food



1. What is a pure substance?
2. How can you test that a substance is pure?

1. What is a formulation?
2. Give 3 examples of formulations.

1. What is chromatography used for?
2. What determines how far the substance travels?
3. What is the mobile phase in paper chromatography?
4. What is the stationary phase in paper chromatography?
5. How would you be able to identify a pure substance on a chromatogram?
6. Draw and label a diagram of the experiment to Investigate how many different colours there are in food colouring using paper chromatography.

Chromatography

- Technique used to separate mixtures of **soluble substances**.
- How soluble a substance is determines how far it travels across paper.
- More soluble = travels further (higher up paper)**

Mobile phase

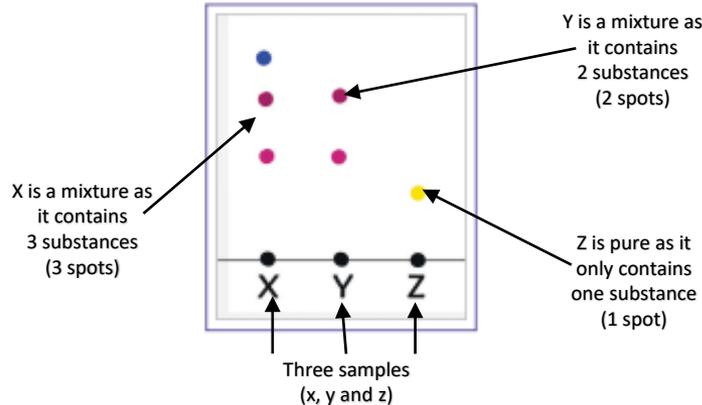
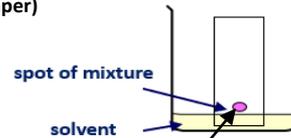
- **Solvent** is the mobile phase
- The substances dissolve in the solvent
- The solvent then moves through the stationary phase.

Stationary phase

- Does not move. The paper is the stationary phase.

Important – start line on paper must be drawn in **pencil** as pencil is **insoluble** and **will not run**

The spot and start line must be **above the solvent line** so the colours won't just wash into the solvent in the beaker.

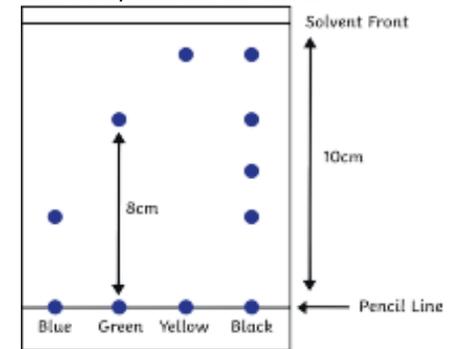


Rf Values

This is the ratio of the distance moved by a substance to the distance moved by the compound

$$R_f = \frac{\text{distance travelled by substance}}{\text{distance travelled by solvent}}$$

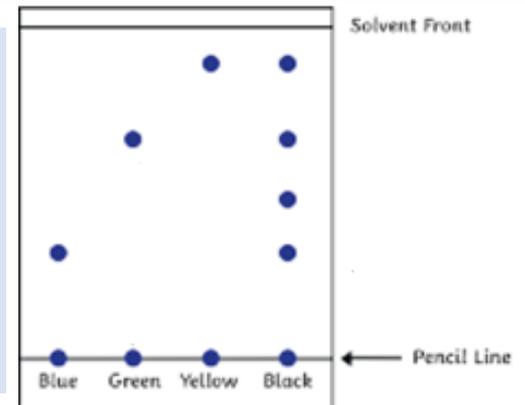
- Should always be between 0 and 1.
- Each substance has a unique Rf value.
- Can compare Rf values to a library of known substances
- Can identify unknown substances.



Rf value of green:

$$8\text{cm} / 10\text{cm} = 0.8$$

1. How do you calculate the Rf value?
2. Rf values should always be between...
3. Use a ruler to measure the distance the solvent moved in the diagram below.
4. Use a ruler to measure how far the yellow spot moved
5. Calculate the Rf value for yellow



Science T2 Y11 C4.12 Mainstream Higher – Chemical analysis

Required Practical – Paper Chromatography

Aim: Investigate how paper chromatography can be used to separate and distinguish between coloured substances.

Method

- 1) Using a ruler, measure 1cm from bottom of chromatography paper and draw a line across the paper with a **pencil**.
- 2) Using a pipette, drop small spots of each ink onto pencil line (leave a gap so do not merge).
- 3) Pour solvent into a beaker, do not fill solvent above the pencil line on the paper.
- 4) Place chromatograph paper into beaker and allow solvent to move up the paper.
- 5) Remove paper just before solvent reaches top of the paper and leave to dry.
- 6) Calculate R_f values of all the spots using the equation below:

$$R_f = \frac{\text{distance travelled by substance}}{\text{distance travelled by solvent}}$$

Common questions

Q1) Why is a pencil used instead of a pen?

A1) Ink in the pen would move up the paper with the substances.

Q2) Why do you not fill the solvent above the line?

A2) Substances would wash off into the solvent instead of rising up the paper

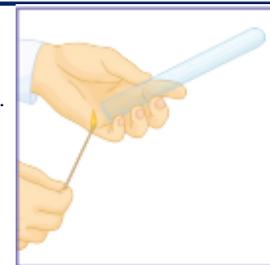
Q3) Why might water not work as a solvent?

A3) Some substances are **insoluble** in water.

1. Describe how you would carry out paper chromatography to separate and identify the different colours in food dye.
2. Why is a pencil used instead of a pen?
3. Why do you not fill the solvent above the pencil line?
4. Why might water not work as a solvent?

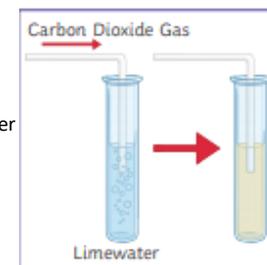
Identification of the Common Gases

Test for hydrogen – Place a **burning** splint at the opening of a test tube. If hydrogen gas is present, it will burn with a **squeaky-pop** sound.



Test for Oxygen – Place a **glowing** splint inside a test tube. The splint will **relight** in the presence of oxygen.

Test for Carbon Dioxide – Bubble the gas through the lime water – if the gas is carbon dioxide, the limewater turns **cloudy**.



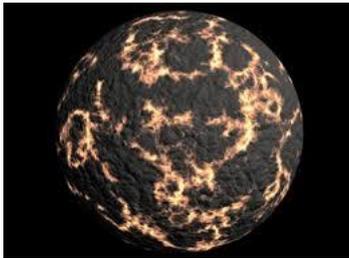
Test for Chlorine – **Damp litmus paper** is held over the of gas. If the tube contains chlorine, the litmus paper becomes **bleached** and **turns white**.

1. Describe the tests and the positive results for:
 - a) Hydrogen
 - b) Carbon dioxide
 - c) Oxygen
 - d) Chlorine

Science T2 Y11 C4.13 Mainstream Higher – The Earth's Atmosphere

Early Atmosphere vs modern atmosphere:

Gas	Levels in earth's early atmosphere	Percentage in air today
Nitrogen	None	78
Oxygen	None	21
Others – CO ₂ and argon	Very High	1
Water vapour	Very high	Varies – but usually only around 1%
Ammonia	High	None



4.6 billion years



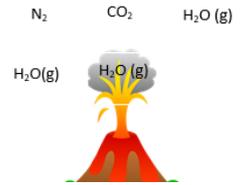
We think that the atmosphere on Earth was once like that of Mars or Venus is today

When Earth was formed it was so hot it was molten on the surface, and the atmosphere was full of toxic gases like methane and ammonia.

We cannot be sure about exactly what the Earth's early atmosphere as we have no evidence from so long ago

How did the atmosphere change?

1. Volcanoes released nitrogen, carbon dioxide and water vapour



2. The earth cooled and solidified

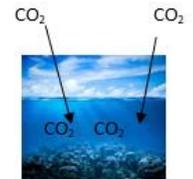


3. Water vapour in the atmosphere condensed and fell as rain



4. Oceans, lakes and rivers formed

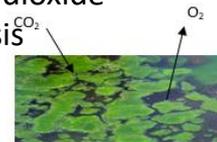
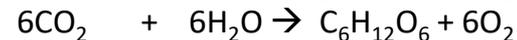
5. Carbon dioxide from the air dissolved in the oceans



6. Some of this reacted to form sedimentary rocks like limestone

7. Algae and then plants evolved, removing carbon dioxide from the air and produced oxygen by photosynthesis

Carbon dioxide + water → glucose + oxygen



8. Many early plants and marine organisms were buried and decayed underground, locking up carbon in fossil fuels like coal (plants) and oil (animals)



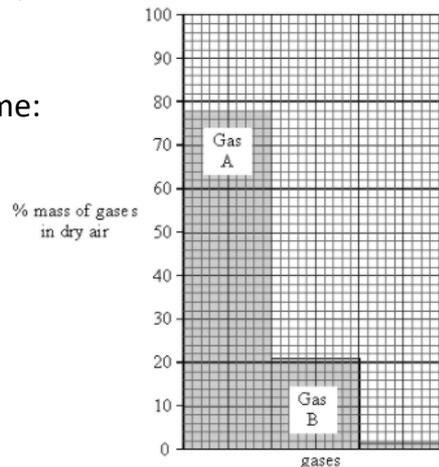
Science T2 Y11 C4.13 Mainstream Higher – The Earth's Atmosphere

1. Name two gases that were present in large quantities in Earth's early atmosphere
2. What is the most abundant gas in today's atmosphere?
3. Which two planets do we think Earth's early atmosphere was similar to?
4. Why can we not be sure about the Earth's early atmosphere?
5. Give two differences between the early atmosphere and today's atmosphere.
6. The data for today's atmosphere is shown on the chart below:

Use the table on page 1 to name:

Gas A

Gas B



1. How did nitrogen form in the atmosphere?
2. How did water vapour levels decrease?
3. Name 2 ways carbon dioxide was removed from the early atmosphere before plants evolved.
4. Which organisms were the first to photosynthesise?
5. Why did oxygen levels rise?
6. Write the equation for photosynthesis
7. What is 'locked up carbon'?
8. Describe how carbon dioxide in the air ended up in rocks like limestone
9. How was coal formed?

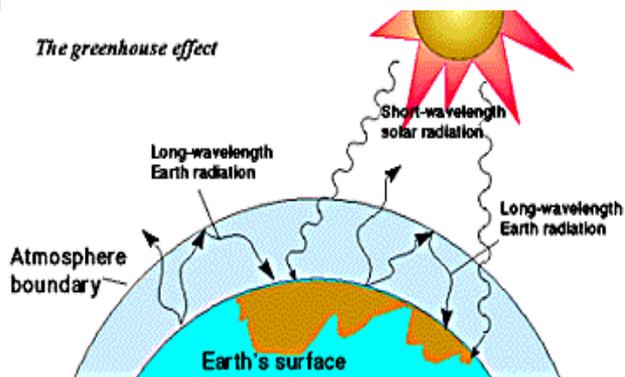


The greenhouse effect

The greenhouse layer is a layer of gases in the atmosphere made of:

- carbon dioxide
- methane
- water vapour

The greenhouse effect



1. Short wavelength infrared radiation from the sun reaches Earth
2. Some energy is absorbed by the Earth
3. Longer wavelength IR is reflected by the Earth
4. Longer wavelength IR cannot get through the greenhouse layer as easily so some is trapped, warming the Earth

The thicker the layer of gases, the more heat is trapped

Global warming

The greenhouse layer is getting thicker, because:

- CO₂ released from fossil fuels to generate electricity
- CO₂ released from fossil fuels in vehicles
- Methane released from cattle
- Methane released from rotting landfill sites

Many scientists believe that human activities are causing the warming of the Earth.

Potential consequences:

- Melting ice caps
- Loss of habitats for animals and plants
- Damage to coral reefs caused by warmer oceans
- Changes to animal migration patterns
- Extreme weather patterns – more hurricanes, heat waves, droughts, snow and ice
- Difficulty growing crops so reduced food supply

Carbon footprint

The total amount of CO₂, CH₄ and water vapour released by of a product or service.

E.g for a concert:

- electricity in performance
- Fossil fuels used by people travelling there
- Plastics used and disposed of in refreshments etc

Carbon footprints can be reduced by recycling, reducing energy use or eating vegetarian diets but this is hard to get people to do.

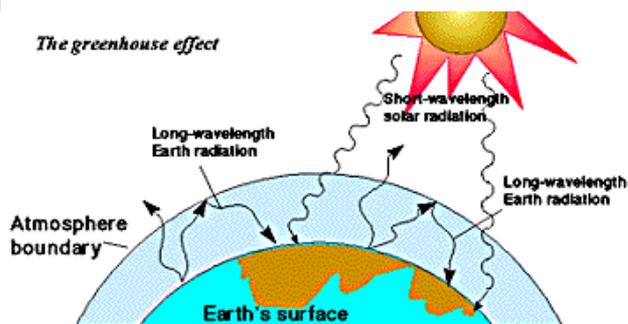
Pollutants :

Pollutant	Source	Effects
Carbon dioxide	Combustion	Global warming
Carbon monoxide	Incomplete combustion of fuels	Toxic gas, can be fatal
Sulfur dioxide	Traces of sulfur in coal react with oxygen when burned	Acid rain
Nitrogen oxides	Hot engines provide the energy for N ₂ to react with O ₂	Acid rain
particulates	Incomplete combustion	Global dimming, breathing problems



The greenhouse effect

1. What is the 'greenhouse' layer?
2. Name the 3 greenhouse gases



1. What sort of radiation is emitted from the sun?
2. How is the wavelength of the radiation reflected from Earth different than that from the sun?
3. Why is some heat trapped?
4. What is the relationship between the thickness of the layer and the amount of heat trapped?

Global warming

1. Name two human activities that release CO₂
2. Name two sources of methane

1. Name two impacts of global warming on animals
2. Why might coral reefs be damaged by global warming?
3. Why might our food supply be under threat?

Carbon footprint

1. What is the 'carbon footprint'?
2. Name two ways a person can reduce their carbon footprint.
3. Why is it difficult to get people to reduce their carbon footprint?

Pollutants :

Pollutant	Source	Effects
Carbon dioxide		Global warming
	Incomplete combustion of fuels	Toxic gas, can be fatal
Sulfur dioxide		
Nitrogen oxides		Acid rain
particulates		

Earth's Resources

We use Earth's resources to provide **warmth, shelter, food and transport**.

E.g.:

- metals from the Earth's crust to build buildings and cars
- Timber and oil to burn for warmth
- Crop plants for food
- Products from crude oil to serve as fuels in cars, trains and planes

Finite resources – ones that will run out as they are being used much faster than they can be replaced, e.g. oil

Renewable resources – resources that will not run out, e.g. wood, wind etc.

Chemistry plays an important part in finding improvements or alternatives to current resources.

Natural	Improved or replaced by....
Wood for furniture	Plastic/polymers
Food crops	Fertilisers/artificially grown foods such as Quorn
Oil for fuel	Ethanol/hydrogen fuel cells
Rubber for tyres	Polymers

1. What are the 4 main uses of the Earth's materials?
2. What is a renewable resource?
3. What is a finite resource?
4. Give an example of a finite resource
5. Give an example of a renewable resource
6. Give an example of a natural product that has been replaced by modern chemistry or farming.

1. What does LCA stand for?
2. What does an LCA assess?
3. What are the 4 stages that are assessed in an LCA?
4. Suggest one environmental impact of extraction of raw materials such as metals or oil.
5. Name two ways products are disposed of at the end of their 'life'

Life-Cycle Assessments (LCA)

- These assess the environmental impact of a product in these stages:

Stage 1 – extracting raw materials needed to make products.

- Energy cost and effect on habitats of extraction
- Are the raw materials finite/renewable?

Stage 2 – Manufacturing and packaging product

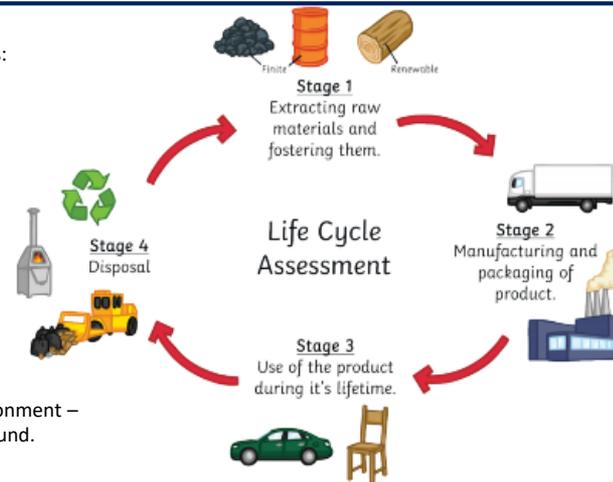
- How much energy and resources are needed?
- What waste products/pollution are released?
- Transportation of goods from factors to user need considering.

Stage 3 – Use of product during its lifetime

- E.g. a car has a significant impact as needs filled up with petrol which is a finite resource.

Stage 4 – Disposal at end of product's life.

- 1) Landfill – high environmental impact
- 2) Incineration – burning of product
- 3) Recycling – e.g. batteries contain metals that are harmful to environment – recycling means no new compounds need to be taken out of the ground.



Example LCA for plastic vs paper bags:

Stage of Life Cycle Assessment	Plastic Bag	Paper Bag
Stage 1 – raw material	Uses finite resource. Process of fractional distillation, cracking and polymerisation all require energy.	Made from trees/recycled paper. Making paper from trees required more energy than recycled paper. Less energy than plastic bags.
Stage 2 – Manufacture	Cheap to make	More expensive to make
Stage 3 – Use	Low environmental impact as can be re-used many times. Much stronger product.	Only be reused a limited number of times – short lifetime.
Stage 4 - disposal	Do not biodegrade easily in landfill.	Paper bags degrade easily in landfill sites.

- Different people have different opinions and so depends on who completes the LCA. Bias may be added.
- Some companies may only discuss some of environmental impacts of their product.
- Accurate numerical values should be used where possible – for example to show how much energy has been used.

1. Why might an LCA be inaccurate?
2. What are the raw materials for a
 - a) paper bag
 - b) plastic bag
3. Why might the disposal of a plastic bag have a greater environmental impact than the disposal of a paper one?

Science T2 Y11 C4.14 Mainstream Higher - The Earth's resources

Reducing the use of resources

Metals, glass, ceramics, building materials and most plastics are produced from limited resources.

The energy for the processes involved in making/extracting raw materials also comes from limited resources – e.g. oil.

We can reduce the use of limited resources by reducing use, reusing materials and recycling materials at the end of their life.

Reduce, reuse, recycle.

E.g.

- Glass bottles can be reused.
- Metals can be melted down and recast and so recycled.
- Scrap steel can be added to extracted iron to reduce the amount of iron that has to be extracted in the blast furnace.

Tyres can be melted and made into asphalt for roads or playground matting →

The metal body is crushed, melted and used in industry →

The battery can be broken up, the acid inside neutralised and the rest recycled →

1. Give three ways we can reduce our use of limited resources.
2. Give an example of a product that can be reused
3. What has to be done to metals before they can be recast?
4. How is scrap iron used to reduce the amount of iron needing to be extracted?

Evaluating methods to reduce, reuse, recycle

Advantages	Disadvantages
Fewer resources such as mines and quarries are needed to extract finite materials	Requires collection and transport of items – involving staff, vehicles and use of fuel
Crude oil does not need to be extracted – avoids high energy costs for fractional distillation etc.	Materials, such as metals, very often have to be separated from other materials first
Less greenhouse gases produced.	Some metals need melting before being reused – energy costs.
Less items in landfill	

Biological extraction techniques (HT only)

- Earth's supply of metal ores is limited.
- There are fewer sites that give lots of copper (high grade ore sites)
- New ways of extracting from low grade ore sites are:

- Phytomining
- Bioleaching

Disadvantage = **slow processes**

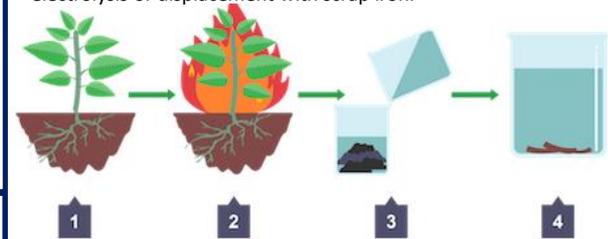
Advantage = reduce need for the traditional mining methods of digging, moving and disposing of large amounts of rock.

1. State two advantages of recycling.
2. State two disadvantages of recycling.

1. What is a 'high grade ore' site?
2. Name the two biological extraction techniques
3. State a disadvantage of biological extraction techniques.

Phytomining (HT only)

- 1) Plants are grown on a low-grade ore
- 2) The plants absorb metal ions through their roots
- 3) The plants are harvested and burnt
- 4) Ash left behind contains metal compounds
- 5) Ash is dissolved in acid and copper is extracted using electrolysis or displacement with scrap iron.



Bioleaching (HT only)

- Uses **bacteria** to produce a solution called **leachate** – contains copper ions.
- The copper can be extracted by using iron to **displace** the copper from the leachate.

- Does not need high temperatures
- Produces **toxic substances** which can damage the environment.

- Iron is cheaper than copper – use of scrap iron is a cost-effective way to produce copper from leachate.

- Can also undergo **electrolysis** to produce copper.

1. What organisms are used in phytomining?
2. What happens to the plants once they've grown?
3. What is used to displace the copper ions from solution?
4. What organisms are used in bioleaching?

Science T2 Y11 C4.14 Mainstream Higher - The Earth's resources

Potable Water

- Water is **essential** for life.
- **Potable water** is water that is safe to drink.
- Potable water is not pure as it contains some dissolved substances.

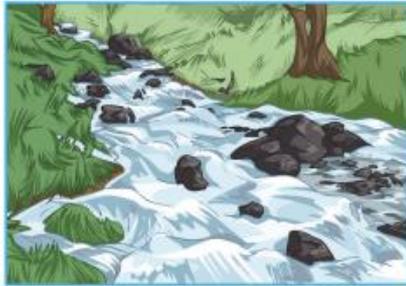
In the UK – rain water provides water with low levels of dissolved substances that collects in the ground and in lakes and rivers. This is fresh water.

Most potable water is produced by:

- 1) Choosing an appropriate source of fresh water
- 2) Passing the water through filter beds
- 3) Sterilising to kill bacteria

Sterilising agents used for potable water include:

- Chlorine
- Ozone
- Ultraviolet light



1. What is potable water?
2. What is fresh water?
3. Where does fresh water collect in the UK?
4. After finding an appropriate source of water, what two stages are needed to make it potable?
5. What are the 3 methods of sterilising water?
6. Why is water treated with chlorine?

Desalination of Sea Water

- **Potable** water can be made from sea water through desalination.

- Required a lot of **energy** to **remove salt** in sea water.
Can be done by:

Distillation

- Sea water heated until it boils
- Steam is **condensed** to make potable water
- Requires a lot of **energy**

Reverse Osmosis

- Water put under **high pressure** and passed through **membrane** with tiny holes in.
- Holes allow water through but not salt/ions
- Very **expensive**
- Produces **large volumes** of waste water.

1. State three pollutants that may be present in waste water.
2. Complete the table to explain the steps in treating waste water.

Step	Explanation
Screening	
Sedimentation	
Anaerobic digestion	
Aerobic digestion	

Waste Water Treatment

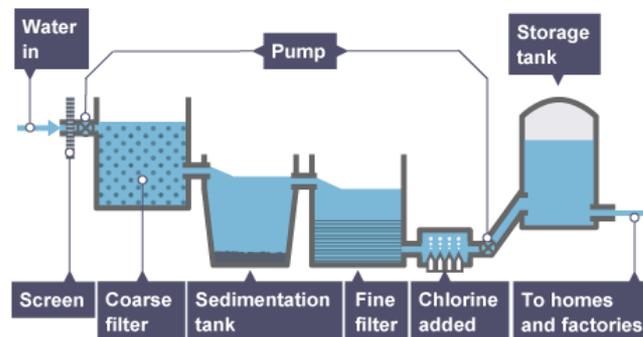
- Waste water needs to be treated before being released back into environment

Pollutants can be present in waste water including:

- Human waste contains harmful **bacteria** and nitrogen – can harm aquatic ecosystems.
- Industrial waste can contain **toxic** substances
- Agricultural waste water can contain **fertilisers** or **pesticides** – disrupt ecosystems.

Sewage treatment involves:

- 1) Screening and grit removal to remove large particles
- 2) Sedimentation – allows tiny particles to settle – produces sewage sludge and effluent (liquid that remains on the top)
- 3) Sewage sludge is digested anaerobically by specific bacteria
- 4) Effluent is treated with aerobic bacteria to reduce volume of solid waste.



1. How can potable water be made from sea water?
2. Give a disadvantage of this technique.
3. Describe the process of distillation.
4. Describe the process of reverse osmosis.

Analysing the pH of Water Samples

- Test pH of each water sample using pH probe or universal indicator.
- Compare to pH chart if using universal indicator

Analysis the Mass of Dissolved Solids

1) Measure out 50 cm³ of water sample using measuring cylinder.

2) Take the mass of evaporating basin using top pan balance.

3) Heat the sample in the evaporating basin gently until all liquid evaporates.

4) Let the evaporating basin cool

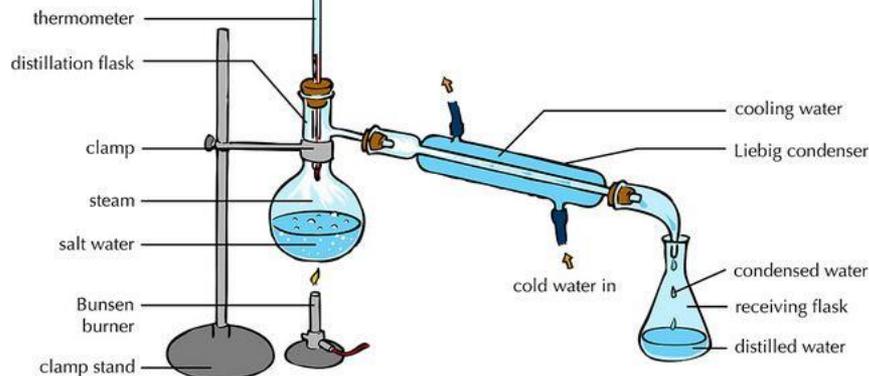
5) Re-take the mass of the evaporating basin.

6) Calculate the mass of the solid left behind by doing: final mass – initial mass.

7) Repeat with different water samples (e.g. rainwater, salt water, spring water)



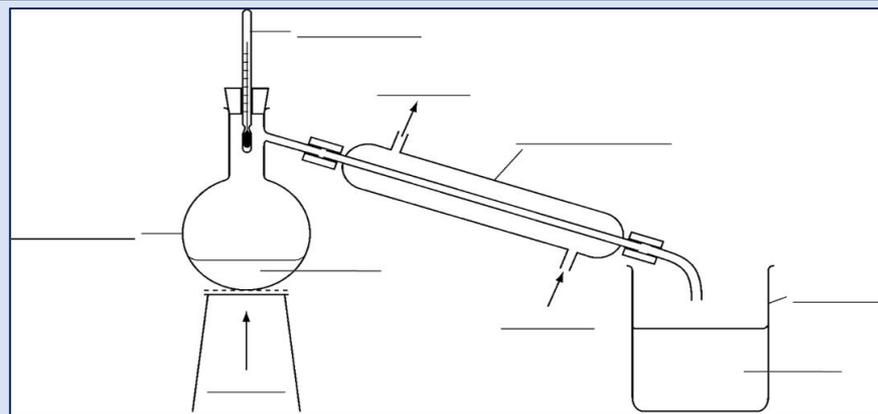
Distillation of water Sample



- 1) Set up apparatus as shown in picture with the sample of water in the round bottom flask.
- 2) Heat water sample until it boils gently.
- 3) Water vapour enters the tube at the side (condenser)
- 4) There is cold water surrounding the tube
- 5) The water vapour cools and condenses and collects in the flask.
- 6) The water collected should be **pure**.

1. Write a method of how to investigate the mass of solids in different samples of water.

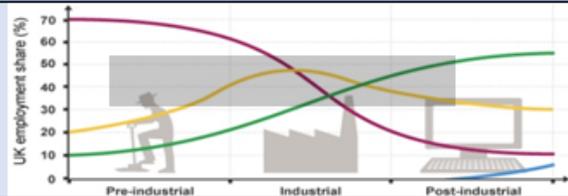
1. Label the diagram to the right to show how to purify salt water.
2. What is the name of this technique?
3. What two changes of state happen during this?
4. Describe the water that is collected in the beaker



Bunsen, water sample, water, beaker, condenser, water in, water out, thermometer, round bottom flask



1. Economic change in the UK



Primary	↘ due to mechanisation.
Secondary	↗ due to industrial revolution then ↘ due to de-industrialisation.
Tertiary	↗ due to wealth (↗ disposable income)
Quaternary	High-tech jobs including research and IT. ↗ due to government policies and the increase in technology.

Why has our economy changed?

De-industrialisation	The decline of a country's traditional manufacturing industry due to exhaustion of raw materials, loss of markets and competition from NEEs.
Government policies	A plan decided by a government to manage issues in a country.
Globalisation	The process which has created a more connected world; with increases in the movement of goods/people worldwide

2. Post industrial economy

Tertiary and quaternary sector employed 81% in 2011.	
IT	Employs over 60,000 people.
Services	Retail is the largest sector. Employs 4.4mill
Finance	London is the world's leading centre. HSBC
Research	Government invested £30bill in 2013.
Science parks	Groups of <u>high tech</u> industries and those doing scientific research. Located near universities (for graduates, share facilities).
Business parks	Purpose built areas of offices and warehouses (on edge of cities as less congestion, cheaper, good transport links).

3. Environmental impact of industry

Air and water pollution. Soil degradation.	
Releases CO ₂ increasing the rate of global warming.	
Transport of materials is by road ↗ air pollution.	
Example of modern industry being environmentally sustainable	
Google	London Landscaper started 2018.
686 bikes spaces	Encourages cycling to work.
4 car spaces	< congestion/CO ₂ emissions.
Solar panels.	Reduces fossil fuel consumption and reduces carbon footprint.
19,800 kWh	
Rooftop gardens	Urban greening. < CO ₂ . Collects rainwater. Encourages wildlife.

4. Changes in the rural landscape

Population decline	Outer Hebrides (away from cities, limited opportunities).
Social changes	<ul style="list-style-type: none"> ↓ Declined by >50% since 1901. ↑ aging population = care issues. ↓ Less children > schools shut.
Economic changes	<ul style="list-style-type: none"> ⊖ Services close ie post offices. ⊖ ↑ tourists but infrastructure not there. ⊖ Government subsidies cost of ferries.
Population growth	South Cambridgeshire (near large cities, people can commute).
Social changes	<ul style="list-style-type: none"> ↓ Migrants from Cambridge, some now from Eastern Europe too. ↓ Proportion of elderly increasing (>65). ↓ 80% car ownership = > congestion. ↓ Young people are costed out.
Economic changes	<ul style="list-style-type: none"> ⊖ ↑ house prices. Less affordable housing ⊖ Petrol prices ↑.

5. Improvements in infrastructure

Road	Upgrading 'Smart motorways' M4. Variable speeds, reducing accidents, extra lanes. 2014 Road investment strategy £15 bill. New construction jobs, boost economy.
Rail	Crossrail in London. Puts extra 1.5 million within 45 mins commute of capital city. HS2 to reduce journey times. London to Manchester in 1 hr 8 minutes.
Port	Liverpool 2. Doubles capacity to over 1.5 million containers a year. 96% of UK imports/exports through ports.
Airports	Heathrow expansion. 3 rd runway £18.6bill

6.. North-South divide

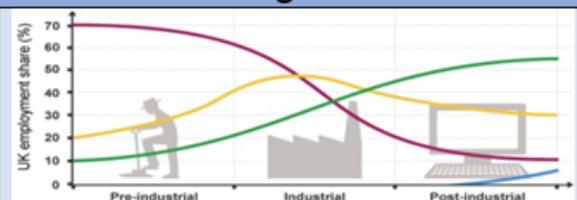
Causes	Decline of heavy industry in North (coal) Investment in finance and service industry in the South Investment in infrastructure in South
Impacts in north	Higher unemployment / lower wages (40%) Poor health, lower life expectancy (10 yrs) Poor education. There are SOME exceptions

Strategies attempting to resolve regional differences

Devolving more powers	Give more power to local councils and Welsh and Scottish governments. Plan best how to use their money.
Northern Powerhouse	A plan to attract investment to north. Improve transport links to northern cities. e.g. HS2, Liverpool2. BUT just a CONCEPT not a plan.
Enterprise Zones	55 EZs to encourage businesses to set up in areas of high unemployment. Reduce taxes, simple planning rules, superfast broadband to the area. Created more than 15,000 jobs.



1. Economic change in the UK



Primary	
Secondary	
Tertiary	
Quaternary	

Why has our economy changed?

De-industrialisation	
Government policies	
Globalisation	

2. Post industrial economy

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Business parks	

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Population decline	
Social changes	
Economic changes	
Population growth	
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Economic changes	

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Road	
Rail	
Port	
Airports	

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Causes	
Impacts in north	

Strategies attempting to resolve regional differences

Devolving more powers	
Northern Powerhouse	
Enterprise Zones	

Year 11 OCR A Term 1 – People of the world

A. How can we measure development?	
Life expectancy	The average lifespan of someone born in that country
Birth rate	Number of live births per 1000 per year
GDP per capita	An average of the national gross domestic product per person per year in \$
Literacy rate	Percentage of people over the age of 15 who can read and write
Death rate	Number of deaths per 1000 people per year
HDI	Measures life expectancy, education and income per capita. Scored 0-1, 0 is low.
Internet users	Percentage of people who have access to the internet

A.	How can we measure development?	
	POSITIVE	NEGATIVE
Life expectancy W	Shows condition of healthcare and quality of services	Does not consider political factors such as war
Birth rate	Shows development of healthcare (e.g., contraception)	Does not consider how long babies survive in the country
GDP per capita	Shows how wealthy a country's population is (quality of life)	Very small/ large populations can disrupt data (e.g. China)
Literacy rate	Shows the quality of education received in a country	Does not consider other factors that disrupt education (e.g. water collection)
Death rate	Shows the quality of healthcare/ disease/ food/water	Can be disrupted if country has an elderly population (Japan)
HDI	Uses a combination of measures= more accurate	
Internet users	Shows the development of infrastructure in a country	Does not consider the quality of this infrastructure

D. How does aid promote and hinder development?	
Promote	Aid can help a country improve its healthcare, communications rapidly by using ready developed technology from more developed nations. It can also help a country recover quickly after a natural disaster.
Hinder	Aid can hinder a country's development by encouraging dependence on money from more developed nations. If a government is corrupt, money given in aid could be used in the wrong places (e.g. armament). Tied aid can put a country into more debt as they spend money buying goods from wealthy nations,

B. What has caused uneven development?	
Natural resources	Fuel sources (oil, gas) can be traded. Access to clean, safe water
Colonialism	One country goes into another country and claims they are in power. They can steal their raw materials.
Industrialisation	Factories are built, increasing trade and increasing economic development
Trade	Can be fair or unfair. Helps a country increase their economy.
Climate	Extreme climate (too hot or too cold) will limit industry and affect health

C. The different types of aid	
Aid	When a country or organisation gives resources to another country (e.g. Money, products or technology)
Bi lateral aid	International aid given by one country to another. Often has 'strings' attached.
Multilateral aid	Given by many different countries or charity organisations (e.g. Oxfam, red cross)
Short-term aid	Aid given to support a country following a disaster (e.g. after an earthquake)
Long-term aid	Aid given over a long period of time to support a country's development (e.g. Oxfam goat aid)

E. What is Nigeria like?	
<u>Nigeria's environmental./ political/ economic context</u>	
<ul style="list-style-type: none"> Nigeria is an EDC in west Africa. It borders Niger to the north and Benin to the west. Nigeria lies on the Atlantic Ocean. Nigeria has a tropical climate in the South (near the Niger delta) and semi-desert climate in the North. Nigeria was colonised by the UK and became independent in 1960 It has high levels of international migration due to jobs in the oil industry Agriculture in Nigeria provides a stable food supply for much of West Africa Nigeria has had a stable government since 2015 	

<u>What has enabled Nigeria to develop?</u>	
<ul style="list-style-type: none"> With a population of 182 million, Nigeria has the largest population of any African country. Nigeria has grown mainly through the export of raw materials such as oil, oil palm and cocoa. They export In 2014 it has the highest GDP in Africa 	

Factors contributing to Nigeria's economic growth	
Imports	Goods coming into a country
Exports	Goods leaving a country
International investment	When one country (e.g. UK) funds businesses in another country (e.g. Nigeria)
Population structure	The 'make-up' of the population. E.g how old or young/ males and females.
Employment structure	How the workforce is divided up (primary/ secondary/ tertiary)

Year 11 OCR A Term 1 – People of the world

A.	How can we measure development?
Life expectancy	
Birth rate	
GDP per capita	
Literacy rate	
Death rate	
HDI	
Internet users	

B.	What has caused uneven development?
Natural resources	
Colonialism	
Industrialisation	
Trade	
Climate	

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A.	How can we measure development?	
	POSITIVE	NEGATIVE
Life expectancy		
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C.	The different types of aid
Aid	
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Multilateral aid	
Short-term aid	
Long-term aid	

E.	What has enabled Nigeria to develop?

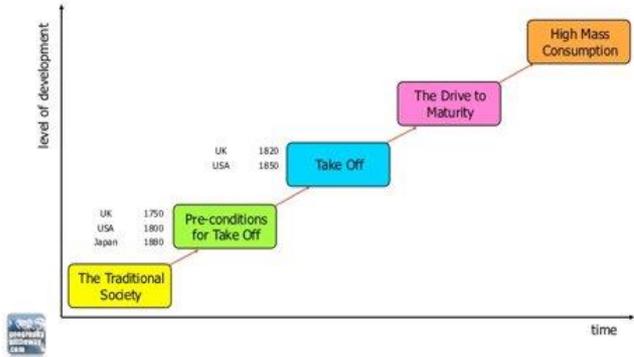
D.	How does aid promote and hinder development?
Promote	
Hinder	

	Factors contributing to Nigeria's economic growth
Imports	
Exports	
International investment	
Population structure	
Employment structure	

Where is Rio?

Rio de Janeiro is located in South America. It is located in south Brazil. It borders the Atlantic Ocean.

- G. Why is Rio de Janeiro a global city?**
- Until 1960 Rio was the capital of Brazil however this has not changed to Brasilia. Rio is still very important.
 - Brazil is in an Emerging Developing Country. This means that it is experiencing rapid economic growth
 - Rio is a mega-city. This means it has a population of over 10 million people.
 - The exact population of Rio is unknown however it is over 18 million.
 - Rio is the cultural capital of Brazil with an annual carnival and over 50 museums. It is also a UNESCO World Heritage Site.
 - In 2014 the world cup took place in Rio
 - In 2016 Rio hosted the Olympics.



- F. What is Rostow's model?**
- Human Influence**
- Currently Nigeria is in stage 3. This is where secondary industries dominate.
 - In the future Nigeria may develop to stage 4
 - They will do this by becoming more self-reliant by improving education.
 - This will lead to increase in tertiary employment such as nursing and IT support.

Positive impacts of urbanisation

- Employment opportunities in banking, finance and insurance.
- Good infrastructure (roads) which link different areas together.
- Better quality of life
- More jobs in secondary and tertiary sectors

Year 11 OCR A Term 1 – People of the world

- H. Where do people in Rio come from?**
- Migration accounts for 65% of urban growth in Rio de Janeiro. Largely people come from Europe, in particular Portugal because they speak Portuguese in Rio.
 - However, large numbers of people come from other parts of Brazil including the Amazon Basin because there are better jobs, higher income, improved medical care and education.
 - People also travel from other countries in South America- Argentina/ Bolivia due to the cultural opportunities in Rio.
 - Many people come from the USA and UK. These are largely people who are highly skilled and are attracted due to the growing secondary and tertiary industry (specifically in oil exploration).
 - Many people come from China and Japan, this is because Rio de Janeiro has a growing finance and banking industry which is well paid.

I. How has migration influenced the character and way of life within Brazil?

Copacabana Beach: The beaches in Brazil are stunning and so are the natural surroundings. Rio is one of the most visited cities in the southern hemisphere. It is a UNESCO world Heritage Site which means that it should be protected from environmental harm.

Crime and government: Due to over population, there are not many jobs which means that many people must resort to crime. As a result, gangs often rule over the favelas. Police have been sent in to pacify these slum areas (make peaceful) with the aim to improve quality of life for people living there.

Negative impacts of urbanisation

- 40% of people living in favelas do not have a job.
- Due to unemployment there's not much tax being paid by a large proportion of the population.
- Not enough houses – 40% of population live in favelas (illegal squatter settlements).
- Only 50% of people have access to healthcare.
- Air pollution – 5,000 deaths/year

K.	
Sustainable Management in Rio- Transport	Due population growth, means that the use of cars has grown by 40% in the last 10 years. They have expanded the public transport system which is a metro that runs under the bay and connects various parts of Rio. More and more people are using the metro system and buses; however, they are not extremely busy as there aren't enough services to go around. They have also put tolls into the city centre, this means that traffic is reduced because people don't want to pay. Lastly, they have made busy roads one way in rush hour. Car use has reduced slightly, however many still use cars for their own safety.
Sustainable Management in Rio- Housing	Hillside were secured and new health and education facilities were built in these areas, however the budget of US\$1Billion is probably not going to be enough to do this in every Favela. It has also led to rent rising and many people can't afford to live in their old homes.

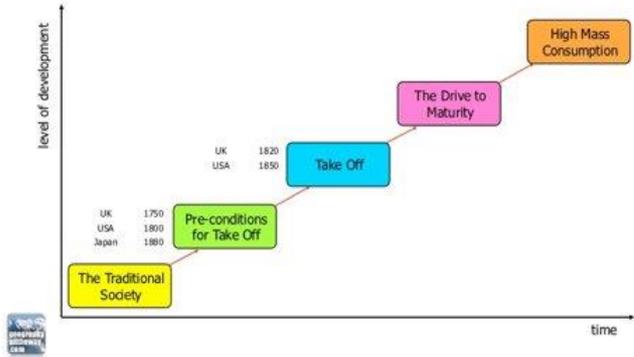
Sustainable Management in Rio- Waste

As we saw before, the largest problems concerning waste disposal are in the Favelas. Many are built on steep slopes and have few proper roads meaning that it is difficult for waste collection lorries to get through. Imagine if rubbish in Swindon wasn't collected every week – it would pile up outside our houses, attracting rats and foxes. It would also really smell. The waste in Rio does the same, it builds up and pollutes the water system spreading diseases like Cholera. To reduce this, a power plant has been set up near the University or Rio which uses methane gas from rotting rubbish to produce energy. This is more environmentally friendly than a lot of electricity production, however it does release some methane which is a greenhouse gas. It consumes 30 tonnes of rubbish a day (that's 2 buses) and produces electricity for 1000 homes. However, because of the methane gas it can be a stinky business.

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Positive impacts of urbanisation

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- Better _____
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Year 11 OCR A Term 1 – People of the world

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1. Types of Production

There are three main types of production:

Type of Production	Explanation
Job Production	Job production is one-off production for a one-off order. It is tailored-made to the specific requirements of a single customer. This can be a very costly method production however this means that the business has increased flexibility in terms of the product produced.
Batch Production	Batch production involves producing a limited number of the same item. This method of production is cheaper than job production however this method of production is not as flexible.
Flow Production	Flow production is continuous output of identical products. This is the cheapest method of production as production becomes fully automated. However this affords the business no flexibility in terms of product differentiation.

2. Types of Production (Advantages and Disadvantages)

There are three main types of production:

Type of Production	Advantages and Disadvantages
Job Production	Advantages: Highly flexible; gives the customer exactly what they want. Disadvantages: High production costs. Skills may be in short supply, making it hard for the business to grow
Batch Production	Advantages: Gain some cost advantages from producing several items at once...yet still able to offer customers the colour/size they want Disadvantages: May be limited scope for automation, making production costs far higher than with flow production. Not as flexible as job production.
Flow Production	Advantages: Can automate production fully, making it highly cost effective (which should be good for customers as well as suppliers). Many customers value consistency, and flow will provide an identical product each time. Disadvantages: Likely to be expensive to set up and inflexible to use; could be a disaster if a product life cycle proves much shorter than expected. Lacks flexibility in terms of meeting individual customer needs.

3. Managing Stock – Key Definitions

Term	Explanations
Bar Gate Stock Graph	A diagram used to manage stock.
Buffer (stock)	The minimum stock level always held to avoid running out.
Just in Time (JIT)	When new supplies must arrive 'just in time' moments before they are required.
Stock	Items held by a firm for use or sale, for example components for manufacturing or sellable products for a retailer

Managing Stock well is vital to the success of a business. Successful stock management requires the right balance between reliability and cost. **Too little stock and customers will feel let down. Too much stock and high costs will force high prices. Without stock, sales cannot happen. Manufacturers and retailers need to make sure they supply the right amount of goods to keep the shelves full.**

4. Procurement – Working with Suppliers

There are five main factors at the heart of a relationship between a company and its suppliers:

Quality	Suppliers must supply high quality products to businesses, suppliers will struggle to maintain a good relationship with a company if they are not supplying good durable products. First and fore most suppliers must supply high quality materials to businesses.
Delivery	Suppliers must deliver on time to clients, there is little point supplying at the right price and with the right product, if the product doesn't arrive on time. Failing to deliver supplies on time can bring manufacturing to a halt or leave shops with empty shelves.
Availability	Suppliers must be available and able to cope with varying orders in a timely fashion and sometimes within a short timeframe. Suppliers must be flexible and aware of the needs of their customers.
Cost	Cheaper supplies mean lower variable costs and higher profit margins. Therefore, the price charged by a supplier will be a key factor in the relationship between a firm and its suppliers. Price to highly and firms may look to alternative suppliers, price to low and firms may question the quality of merchandise. Pricing is key to the relationship between supplier and firm.
Trust	Trust is key for the relationship between firm and supplier. Most business transactions are on credit and not cash – therefore suppliers <u>have to be</u> able to trust that a firm will make a profit and be able to pay them back in cash.

5. Placing Strategy – Managing Quality within a Business

Type of Quality Control	Explanation:
Quality Control	Quality control is a system of inspection to try to make sure that customers don't experience a poor-quality product or service. Such controls may include Factory Inspectors at the end of a production line checking the quality of a product
Quality Assurance	Quality Assurance describes the system put into place by a company to assure quality within the production system. Every member of staff will have responsibilities to quality assure products. Over time this should lead to quality products as people become better at their roles.
Quality Culture	Quality culture means the general attitudes and behaviours among staff within a workplace is focussed on high quality production. Quality culture describes motivated, punctual, diligent and invested employees who care about the business and strive to improve it.

6. The Sales Process

Term	Definition
Customer Engagement	The attempt to make a customer feel part of something rather than an outsider.
Customer Feedback	Comments, praise or criticisms given to the company by its customers
Post-Sales Service	Service received after the purchase is completed because something has gone wrong or as a way of promoting customer engagement
Product Knowledge	How well staff know all the features of the products and service issues surrounding the products.

7. Customer Service

Great Customer Service is pivotal to any successful business, but there is far more than that to the sales process. To succeed in sales, a business must make sure it provides:

Component of Customer Service	Term
Product Knowledge	<p>Customers expect that staff will be sufficiently well trained and well-motivated to have good knowledge of the products and services being offered. In order to ensure staff, have good product knowledge, certain things are essential:</p> <p>Good Training – if businesses provide good training to staff, then staff will be knowledgeable about products and therefore will be able to improve the customer experience</p> <p>Loyal Staff – The longer staff stay working in a job the better they become. If staff only stay three to six months, they will never develop a rich understanding of the products and services that the business provides. Well managed businesses pay fairly and treat staff with respect.</p> <p>Committed Staff – Committed and enthusiastic staff are crucial to the smooth running of any business. This is affected by the quality of recruitment, the standard of training and the overall culture that exists within the company’s workforce.</p>
Speedy and Efficient Service	<p>Good customer service is designed for the customer not the company.</p> <p>Efficient service:</p> <p>Gets products to customers exactly when you want them</p> <p>Gets products to customers in good condition</p> <p>If there is anything <u>wrong</u> - it will be sorted out as soon as possible and considerately</p>
Customer Engagement	<p>In the world of social media, it becomes possible to try to keep customers engaged with the business on a regular basis.</p> <p>Companies engage customers in a variety of ways:</p> <p>E-Mail</p> <p>Social Media (Facebook and Instagram)</p> <p>Post</p> <p>Text</p> <p>Television/Web advertisements.</p> <p>It is vital that customers feel up to date and informed about any product innovations</p>
Responses to Customer Feedback	<p>How companies respond to customer feedback is vital, providing great customers service where people feel listened too ensures customers continue to come back and buy products from the business.</p> <p>It can cost a lot of money to persuade new customers to come advertising is expensive and it’s affects are hard to judge. Building up a reputation for responding to customer feedback can travel by word of mouth and this is much cheaper.</p>

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Batch Production	
Flow Production	

2. Types of Production (Advantages and Disadvantages)

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Availability	
Cost	
Trust	

5. Placing Strategy – Managing Quality within a Business

Type of Quality Control	Explanation:
Quality Control	
Quality Assurance	
Quality Culture	

6. The Sales Process

Term	Definition
Customer Engagement	
Customer Feedback	
Post-Sales Service	
Product Knowledge	

7. Customer Service

Great Customer Service is pivotal to any successful business, but there is far more than that to the sales process. To succeed in sales, a business must make sure it provides:

Component of Customer Service	Term
Product Knowledge	
Speedy and Efficient Service	
Customer Engagement	
Responses to Customer Feedback	
Excellent Post Sales Service	



Term	Definition
Arithmetic Operator	A mathematical character to perform a calculation. Example: +
Array	A set of values, of the same data type, stored in sequence. A list.
Casting	Setting or changing the data type of a variable.
Concatenation	Connecting strings of characters together.
Condition	A statement which is either true or false. A computation depends on whether a condition is true or false.
Constant	A value which does not change whilst the program is running.
Element	An individual item in an array. A value in a list.
File	Anything you can save. Document, piece of music, data etc.
Identifier	A name, usually for part of the program such as a constant, variable, array etc.
IF Statement - Selection	A statement that lets a program select an action depending on whether it is true or false.
Loops - Iteration	Repeating an action, activity or section within a program.
Operator	A character which determines what action is to be considered or determined. Example: =
Relational Operator	An operator which compares two values. Example: <
Subroutine	A section of code written outside of the main program. Covers procedures and functions.
Variable	A memory location within a computer where values are stored.

Term	Definition
Fibre-Optic Cable	A cable that carries data transmitted as light.
File Sharing	Sharing access to files via a network.
Hub / Switch	A piece of hardware used in Computer Networks to connect multiple devices.
LAN - Local Area Network	A network that covers a small area, e.g. a school or office.
Modem	Meaning modulator/demodulator allowing computers to connect to a network via a telephone line.
Network	A group of two or more computers connected together and communicating with each other.
NIC – Network Interface Card	A circuit board installed in a computer allowing it to connect to a network.
PAN - Personal Area Network	A network of personal devices, such as Bluetooth etc.
Router	A device for connecting multiple networks together.
WAN - Wide Area Network	A network which spans across a large geographical area. Multiple buildings, national, internet. Etc.
Wired	A connection which requires wires/ cables to transmit data.
Wireless	A connection which does not require wires and transmits data using radio signals.
WAP - Wireless Access Point	A device which connects computers to a network with a wireless connection.

Cybersecurity Terms	Definition
Adware	Software which causes advertising popups.
Anti-virus	Software which scans storage devices for malware and attempts to remove them.
Biometrics	Authentication technique which relies on physical characteristics like fingerprints.
Hacking	Gaining unauthorised access to a system.
Keylogger	Software which records all keystrokes on a computer keyboard.
Malware	Software which is designed to cause damage or harm to a computer system or its user's interests.
Patch	An update to a piece of software. Usually to fix bugs or improve it.
Pharming	Cyberattack which redirects a user from a genuine website to a fake one.
Phishing	An email which pretends to be from a legitimate source such as a bank to gain personal information.
Ransomware	Malware which encrypts a user's files then demands a ransom to decrypt them.
Social Engineering	Tricking people into giving away sensitive information.
Spyware	Malware which collects information about the user and their activities.
Trojan	Malware which appears legitimate but performs malicious activity when running.
Virus	Malware which replicates itself and damages computer systems and files.

Variable	A memory location
	within a computer
	where values are stored.

Input/Output and Calculation

```

userInputName = input("Enter your name: ")
userNum = int(input("Enter an integer: "))
userDec = float(input("Enter a decimal number: "))

calculation = userNum + userDec

print("Hello", userInputName, "the result is", calculation)

Enter your name: Mr. Weston Enter an integer: 3 Enter a decimal number: 15.2 Hello Mr. Weston the result is 18.2
    
```

IF Statements

```

print("Press 1 for a greeting. Press 2 for a farewell.")
userChoice = int(input("Awaiting Input: "))

if userChoice == 1:
    print("Hello User!")
elif userChoice == 2:
    print("Goodbye User!")
else:
    print("Error - 1 or '2' not detected.")
    
```

```

Press 1 for a greeting. Press 2 for a farewell Awaiting Input: 1
Hello User!
>>>
Press 1 for a greeting. Press 2 for a farewell Awaiting Input: 2
Goodbye User!
>>>
Press 1 for a greeting. Press 2 for a farewell
Awaiting Input: 3
Error - '1' or '2' not detected.
    
```

LOOPS

```

(userChoice = "Yes"
while userChoice == "Yes":
    userChoice = input("Do you want to repeat this? ")
    
```

```

userCount = int(input("How many times do you want to use this loop? "))
for x in range(1, userCount+1):
    print("You asked for this many.")
    
```

```

Do you want to repeat this? Yes Do you want to repeat this? Yes
Do you want to repeat this? No thank you.
How many times do you want to use this loop? 3 You asked for this many.
You asked for this many.
You asked for this many.
    
```



Term	Definition
	A mathematical character to perform a calculation. Example: +
	A set of values, of the same data type, stored in sequence. A list.
	Setting or changing the data type of a variable.
	Connecting strings of characters together.
	A statement which is either true or false. A computation depends on whether a condition is true or false.
	A value which does not change whilst the program is running.
	An individual item in an array. A value in a list.
	Anything you can save. Document, piece of music, data etc.
	A name, usually for part of the program such as a constant, variable, array etc.
	A statement that lets a program select an action depending on whether it is true or false.
	Repeating an action, activity or section within a program.
	A character which determines what action is to be considered or determined. Example: =
	An operator which compares two values. Example: <
	A section of code written outside of the main program. Covers procedures and functions.
	A memory location within a computer where values are stored.

Term	Definition
	A cable that carries data transmitted as light.
	Sharing access to files via a network.
	A piece of hardware used in Computer Networks to connect multiple devices.
	A network that covers a small area, e.g. a school or office.
	Meaning modulator/demodulator allowing computers to connect to a network via a telephone line.
	A group of two or more computers connected together and communicating with each other.
	A circuit board installed in a computer allowing it to connect to a network.
	A network of personal devices, such as Bluetooth etc.
	A device for connecting multiple networks together.
	A network which spans across a large geographical area. Multiple buildings, national, internet. Etc.
	A connection which requires wires/ cables to transmit data.
	A connection which does not require wires and transmits data using radio signals.
	A device which connects computers to a network with a wireless connection.

Cybersecurity Terms	Definition
	Software which causes advertising popups.
	Software which scans storage devices for malware and attempts to remove them.
	Authentication technique which relies on physical characteristics like fingerprints.
	Gaining unauthorised access to a system.
	Software which records all keystrokes on a computer keyboard.
	Software which is designed to cause damage or harm to a computer system or its user's interests.
	An update to a piece of software. Usually to fix bugs or improve it.
	Cyberattack which redirects a user from a genuine website to a fake one.
	An email which pretends to be from a legitimate source such as a bank to gain personal information.
	Malware which encrypts a user's files then demands a ransom to decrypt them.
	Tricking people into giving away sensitive information.
	Malware which collects information about the user and their activities.
	Malware which appears legitimate but performs malicious activity when running.
	Malware which replicates itself and damages computer systems and files.

Variable	A memory location within a computer where values are stored.
----------	--

```

Input/Output and Calculation
userInputName = input("Enter your name: ") userNum =
int(input("Enter an integer: ")) userDec = float(input("Enter a
decimal number: "))
calculation = userNum + userDec
print("Hello", userInputName, "the result is", calculation)
Enter your name: Mr. Weston Enter an integer: 3 Enter a decimal
number: 15.2 Hello Mr. Weston the result is 18.2

IF Statements
print("Press 1 for a greeting. Press 2 for a farewell.") userChoice =
int(input("Awaiting Input: "))
if userChoice == 1: print("Hello User!")
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else:
    print("Error - 1 or '2' not detected.")
    
```

```

Press 1 for a greeting. Press 2 for a farewell Awaiting Input: 1
Hello User!
>>>
Press 1 for a greeting. Press 2 for a farewell Awaiting Input: 2
Goodbye User!
>>>
Press 1 for a greeting. Press 2 for a farewell
Awaiting Input: 3
Error - '1' or '2' not detected.
    
```

```

LOOPS
(userChoice = "Yes"
while userChoice == "Yes":
    userChoice = input ("Do you want to repeat this? ")
    
```

```

userCount = int(input("How many times do you want to use this
loop? "))
for x in range (1, userCount+1): print("You asked for this many.")
    
```

```

Do you want to repeat this? Yes Do you want to repeat this? Yes
Do you want to repeat this? No thank you.
How many times do you want to use this loop? 3 You asked for
this many.
You asked for this many.
You asked for this many.
    
```




What we are learning this term:

- A. One-Point Perspective
- B. Two-point Perspective
- C. Isometric Drawing
- D. Exploded Drawing
- E. Oblique Drawing
- F. CAD
- G. Orthographic Drawing

Design Strategies Introduction.

Design strategies are used to create technical drawings, to show an object in 3D on a 2D page. Perspective drawings show an object getting smaller in the distance. The rest are done to scale.

A. One-point Perspective Drawing

Commonly used by interior designers to show a view into a room.

C. Isometric Technical Drawing

Used by architects and engineers to communicate their ideas to the client and manufacturer.

E. Oblique Technical Drawing

Commonly used by engineers for drafting ideas.

F. CAD (Computer Aided Design)

Commonly used to model, test and develop an idea before manufacture.

B. Two-point Perspective Drawing

Commonly used by architects to show realistic building ideas.

D. Exploded Technical Drawing

All parts are shown separately so you can see all aspects. **Dashed lines** indicate where everything goes and in what order.

G. Orthographic Projection – 2D NOT 3D Drawing Strategy!

Commonly used in industry to help the manufacturer understand the design.

Name: _____

Date: _____

Macronutrients, fibre and water

Macronutrients

Macronutrients provide energy. The macronutrients are:

- carbohydrate;
- protein;
- fat.

Macronutrients are measured in grams (g).

Alcohol

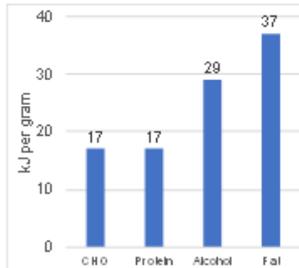
Alcohol is not considered a nutrient, but is a source of energy in the diet.

The government recommends no more than 14 units of alcohol per week for both men and women.

Energy from food

- Energy intake is measured in joules (J) or kilojoules (kJ), but many people are more familiar with Calories (kcal).
- Different macronutrients, and alcohol, provide different amounts of energy.

	Energy per gram
Carbohydrate	16kJ (3.75 kcals)
Protein	17kJ (4 kcals)
Alcohol	29kJ (7kcals)
Fat	37kJ (9 kcals)



Protein

- Made up of building blocks called amino acids.
- There are 20 amino acids found in protein.
- Eight amino acids have to be provided by the diet (called essential amino acids).

The essential amino acids are isoleucine, leucine, lysine, methionine, phenylalanine, threonine, tryptophan and valine.

In young children, additional amino acids, e.g. histidine and tyrosine, are sometimes considered to be essential (or 'conditionally essential') because they may be unable to make enough to meet their needs.

Recommendations

- 0.75g/kg bodyweight/day in adults.

Sources:

Animal sources: meat; poultry; fish; eggs; milk; dairy food.

Plant sources: soya; nuts; seeds; pulses, e.g. beans, lentils; mycoprotein.

Protein complementation

Different food contains different amounts and combinations of amino acids.

Vegans and vegetarians can get all the amino acids they need by combining different protein types at the same meal. This is known as protein complementation.

Examples are:

- rice and peas;
- beans on toast;
- hummus and pitta bread;
- bean chilli served with rice.

Carbohydrate

All types of carbohydrate are compounds of carbon, hydrogen and oxygen. They can be divided into three main groups according to the size of the molecule.

These three types are:

- monosaccharides (e.g. glucose);
- disaccharides (e.g. lactose);
- polysaccharide (e.g. sucrose).

The two types main of carbohydrate that provide dietary energy are starch and sugars. Dietary fibre is also a type of carbohydrate.

Starchy carbohydrate is an important source of energy.

Starchy foods - we should be choosing wholegrain versions of starchy foods where possible.

Recommendations

- Total carbohydrate - around 50% of daily food energy.
- Free sugars include all sugars added to foods plus sugars naturally present in honey, syrups and unsweetened fruit juice (<5% daily food energy).
- Fibre is a term used for plant-based carbohydrates that are not digested in the small intestine (30g/day for adults).

Fibre

- Dietary fibre is a type of carbohydrate found in plant foods.
- Food examples include wholegrain cereals and cereal products; oats; beans; lentils; fruit; vegetables; nuts; and, seeds.

Dietary fibre helps to:

- reduce the risk of heart disease, diabetes and some cancers;
- help weight control;
- bulk up stools;
- prevent constipation;
- improve gut health.

Fat

Sources of fat include:

- saturated fat;
- monounsaturated fat;
- polyunsaturated fat.

Fats can be saturated, when they have no double bonds, monounsaturated, when they have one double bond, or polyunsaturated, when they have more than one double bond.

Recommendations

- <35% energy, Saturated fat <11% energy.

A high saturated fat intake is linked with high blood cholesterol levels.

Sources:

Saturated fat: fatty cuts of meat; skin of poultry; butter; hard cheese; biscuits, cakes and pastries; chocolate.

Monounsaturated fat: edible oils especially olive oil; avocados; nuts.

Polyunsaturated fatty acids: edible oils especially sunflower oil; seeds; margarine; spreadable fats made from vegetable oils and oily fish.

Dietary reference values (DRVs) are a series of estimates of the energy and nutritional requirements of different groups of healthy people in the UK population. They are not recommendations or goals for individuals.

Reference Intakes are guidelines for the maximum amount of energy (calories), fat, saturated fat, sugars and salt consumed in a day (based on a healthy adult female).

Key terms

Dietary reference values: Estimated dietary requirements for particular groups of the population.

Essential amino acids: 8 of the different amino acids found in proteins from plants and animals that have to be provided by the diet.

Macronutrients: Nutrients needed to provide energy and as the building blocks for growth and maintenance of the body.

Protein complementation: combining different protein types at the same meal to ensure all EAAs are ingested.

Reference Intakes: Guidelines for the maximum amount of nutrients consumed.

Hydration

- Aim to drink 6-8 glasses of fluid every day.
- Water, lower fat milk and sugar-free drinks including tea and coffee all count.
- Fruit juice and smoothies also count but should be limited to no more than a combined total of 150ml per day.

20% of water is provided by food such as soups, yogurts, fruit and vegetables.

The other 80% is provided by drinks such as water, milk and juice.

Drinking too much water can lead to 'water intoxication' with potentially life-threatening hyponatraemia.

This is caused when the concentration of sodium in the blood gets too low.



KS4 FOOD AND NUTRITION KNOWLEDGE ORGANISER T1



Micronutrients

Micronutrients are needed in the body in tiny amounts. They do not provide energy, but are required for a number of important processes in the body.

There are two main groups of micronutrients:

- vitamins;
- minerals and trace elements.

Micronutrients are measured in milligrams (mg) and micrograms (μg) with $1\text{mg} = 0.001\text{g}$ and $1\mu\text{g} = 0.001\text{mg}$.

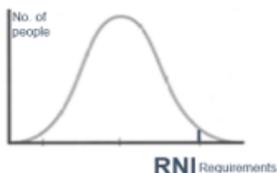
Micronutrient recommendations
People have different requirements for each micronutrient, according to their:

- age;
- gender;
- physiological state (e.g. pregnancy).

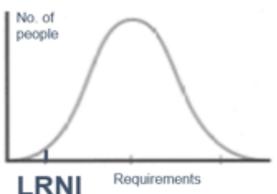


Micronutrient recommendations

The recommendations for vitamins and minerals are based on the **Reference Nutrient Intake (RNI)**.



When looking at low intakes of micronutrients, the **Lower Reference Nutrient Intake (LRNI)** is used.



For more information, go to: <https://bit.ly/36KUn1j>

Vitamins

Vitamins are nutrients required by the body in small amounts, for a variety of essential processes.

Most vitamins cannot be made by the body, so need to be provided in the diet.

Vitamins are grouped into:

- fat-soluble vitamins (vitamins A, D, E and K);
- water-soluble vitamins (B vitamins and vitamin C).

Minerals

Minerals are inorganic substances required by the body in small amounts for a variety of different functions.

The body requires different amounts for each mineral.

Some minerals are required in larger amounts, while others are needed in very small amounts and are called 'trace elements'.

Vitamins

Nutrient	Function	Sources
Vitamin A	Helps the immune system to work as it should and with vision.	Liver, cheese, eggs, dark green leafy vegetables and orange-coloured fruits and vegetables.
B vitamins	Thiamin , riboflavin, niacin, folate, and vitamin B12 have a range of functions within the body.	Different for each B Vitamin.
Vitamin C	Helps to protect cells from damage and with the formation of collagen.	Fruit (especially citrus fruits), green vegetables, peppers and tomatoes.
Vitamin D	Helps the body to absorb calcium & helps to keep bones strong.	Oily fish, eggs, fortified breakfast cereals and fat spreads.
Vitamin E	Helps to protect the cells in our bodies against damage.	Vegetable and seed oils, nuts and seeds, avocados and olives.
Vitamin K	Needed for the normal clotting of blood and is required for normal bone structure.	Green vegetables and some oils (rapeseed, olive and soya oil).

Minerals

Nutrient	Function	Sources
Calcium	Helps to build and maintain strong bones and teeth.	Dairy, calcium-fortified dairy-alternatives, canned fish (where soft bones are eaten) and bread.
Iron	Helps to make red blood cells, which carry oxygen around the body.	Offal, red meat, beans, pulses, nuts and seeds, fish, quinoa, wholemeal bread and dried fruit.
Phosphorus	Helps to build strong bones and teeth and helps to release energy from food.	Red meat, poultry, fish, milk, cheese, yogurt, eggs, bread and wholegrains.
Sodium	Helps regulate the water content in the body.	Very small amounts found in foods. Often added as salt.
Fluoride	Helps with the formation of strong teeth and reduce the risk of tooth decay.	Tap water, tea (and toothpaste).
Potassium	Helps regulate the water content in the body and maintain a normal blood pressure.	Some fruit and vegetables, dried fruit, poultry, red meat, fish, milk and wholegrain breakfast cereals.
Iodine	Helps to make thyroid hormones. It also helps the brain to function normally.	Milk, yogurt, cheese, fish, shellfish and eggs.

Key terms

Micronutrients: Nutrients needed in the diet in very small amounts.

Lower Reference Nutrient Intake (LRNI): is the amount of a nutrient that is enough for only the small number of people who have low requirements (2.5%). The majority of people need more.

Reference Nutrient Intake (RNI): the amount of a nutrient that is enough to ensure that the needs of nearly all the group (97.5%) are being met. The RNI is used for recommendations on protein, vitamins and minerals.

Vitamin D

Vitamin D is a pro-hormone in the body. It can be obtained in two forms:

- ergocalciferol (vitamin D₂);
- cholecalciferol (vitamin D₃).

Vitamin D₃ is also formed by the action of sunlight. Different to most vitamins, the main source of vitamin D is synthesis in the skin following exposure to sunlight. The wavelength of UVB during the winter months in the UK does not support vitamin D synthesis.



Frayer Model Key Words

Protein	A macronutrient that is essential to building muscle mass.
Fat	A macronutrient which supplies the body with energy.
Carbohydrates	A macronutrient that is required by all animals. It is made in plants by the process of photosynthesis.
Vitamin	Vitamins are split into two categories, water soluble and fat soluble. Fat soluble vitamins (A, D, E, and K) dissolve in fat. Water soluble vitamins (the B group and vitamin C) dissolve in water.
Nutritional	Providing or obtaining the food necessary for health and growth.
Energy	The strength and vitality required for sustained physical or mental activity.



What we are learning this term:	
A.	The values that can be promoted through sport
B.	The Olympic and Paralympic values
C.	Initiatives that promote values through sport
D.	The important of etiquette and sporting behaviour
E.	The use of performance enhancing drugs

A.	Key question from Assessment objectives?	
	Key word	Key definition
	Etiquette	A code of polite behaviour
	Enhancing	To improve something
	Initiatives	A scheme to try and improve something
	Reputation	The opinions about something
	Creed	A belief in something
	Inclusion	Making sure everyone has an equal opportunity
	Sportsmanship	Fair and generous behaviour
	Gamesmanship	Winning by bending the rules

A.	What is the Olympic creed?
	<p>"The most important thing is not to win but to take part, just as the most important thing in life is not to triumph but the struggle. The essential thing is not to have conquered, but to have fought well."</p> <p>Pierre De Coubertin- Founder of the modern Olympic games</p>

Main assessment objectives	
Learning outcome: Know about the role of sport in promoting values	
C.	What is the difference between sportsmanship and gamesmanship?
Sportsmanship is the unwritten rules that players play by, whereas gamesmanship is bending the rules to gain an advantage	
What is spectator etiquette?	
<ol style="list-style-type: none"> 1. Quiet at Wimbledon during rallies 2. Quiet during snooker 3. Quiet during national anthems 4. Clapping for a new batsman in cricket 	



A.	What are the values that can be promoted through sport?
	<ol style="list-style-type: none"> 1. Team spirit 2. Fair play 3. Citizenship 4. Tolerance 5. Inclusion 6. National pride 7. Excellence



A.	What are the Olympic and Paralympic values?
	<ol style="list-style-type: none"> 1. Respect 2. Excellence 3. Friendship 4. Courage 5. Determination 6. Inspiration 7. Equality

G.	Performance enhancing drugs
	<p><u>Why do athletes use them?</u></p> <p>Pressure to succeed as an individual Pressure to succeed as a nation Pressure from sponsors</p> <p><u>Why they shouldn't be used?</u></p> <p>Long term health issues Consequences when found guilty Unfair advantage</p> <p><u>What is WADA?</u></p> <p>World Anti Doping Agency The organisation is charge of drug testing across the world</p> <p><u>How do they carry out drug testing?</u></p> <p>Blood sample Hair sample Nail sample</p>



Sporting values	
Team spirit	Learning how to work together and support others
Fair play	Learning the importance of playing by the rules
Citizenship	Involved in your local community through sport
Tolerance and respect	Developing understanding of different countries and culture through sport
Inclusion	Initiatives to get under-represented social groups involved in sport
National pride	Supporters and performers unite behind a country in international events
Excellence	Striving to be the best you can be in your favourite sport

Values that can be promoted through sport



What we are learning this term:

- A. *The values that can be promoted through sport*
- B. *The Olympic and Paralympic values*
- C. *Initiatives that promote values through sport*
- D. *The important of etiquette and sporting behaviour*
- E. *The use of performance enhancing drugs*

A.	Key question from Assessment objectives?
Key word	Key definition
	A code of polite behaviour
	To improve something
	A scheme to try and improve something
	The opinions about something
	A belief in something
	Making sure everyone has an equal opportunity
	Fair and generous behaviour
	Winning by bending the rules

A.	What is the Olympic creed?
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Main assessment objectives	
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Sportsmanship is the unwritten rules that players play by, whereas gamesmanship is bending the rules to gain an advantage	
What is spectator etiquette?	
1	
2	
3	
4	

A.	What are the values that can be promoted through sport?
1	
2	
3	
4	
5	
6	
7	

A.	What are the Olympic and Paralympic values?
1	
2	
3	
4	
5	
6	
7	

G.	Performance enhancing drugs
<u>Why do athletes use them?</u>	
1	
2	
3	
<u>Why they shouldn't be used?</u>	
1	
2	
3	
<u>What is WADA?</u>	
1	
2	
<u>How do they carry out drug testing?</u>	
1	
2	
3	

Sporting values	
	Learning how to work together and support others
	Learning the importance of playing by the rules
	Involved in your local community through sport
	Developing understanding of different countries and culture through sport
	Initiatives to get under-represented social groups involved in sport
	Supporters and performers unite behind a country in international events
	Striving to be the best you can be in your favourite sport

Values that can be promoted through sport



What we are learning during this unit:	
A. Job Roles in the Music Industry	
B. Employment Patterns	
C. Record Labels (Pros and Cons)	
D. Venues / Health and Safety / Security	
E. Unions/Agencies/Trade Bodies	
F. Publishing (Pros and Cons)	
6 Key Words for this term	
1 Employment	4 Responsibility
2 Major	5 Union
3 Independent	6 Publishing

B. Employment Patterns	
Fulltime	5 days a week, Contract (holidays/sick pay and pension)
Part time	1-4 days a week, Contract like full time.
Freelance	Self-employed, no long-term contracts! No work = no pay
Permanent Vs Casual	Permanent = guaranteed work / security whereas casual is not secure, varies but does give more flexibility
C. Record Labels (pros and cons)	

E. Unions/Agencies/Trade Bodies	
<p>Agencies</p> <p>MCPS / PRS Mechanical-Copyright Protection Society and the Performing Right Society. <i>Collects royalties for musicians for physical formats like CD (MCPS) and live music (PRS)</i></p> <p>PPL = Phonographic Performance Limited. <i>Licenses the right to perform recorded music</i></p>	
<p>Unions</p> <p><i>Unions provide support for lots of people, they provide things like advice for freelancers on NI/TAX, handling disputes, and support in negotiating contracts</i></p> <p>MU = Musicians Union Equity BECTU = Broadcasting Entertainment Cinematograph Theatre Union</p>	
<p>Trade bodies</p> <p>MPG = Music Producers Guild <i>Represents people involved in producing recorded music</i></p> <p>PLASA = Professional Lighting and Sound Association <i>Represents those who work/supply technologies</i></p> <p>APRS = Association of Professional Recording Services <i>Represents those who work in the audio industry, e.g. recording studios/producers</i></p>	

A. Job Roles in the Music Industry	
Key word	Key definition
✓ Musician	<i>Plays an instrument or voice</i>
✓ Composer	<i>Writes music e.g. films</i>
✓ Songwriter	<i>Writes songs</i>
✓ Record producer	<i>Directs recording sessions</i>
✓ Conductor	<i>Directs an orchestra / ensemble</i>
✓ Live Sound	<i>Monitors sound at live events</i>
✓ Technician	<i>Moves equipment /sets up</i>
✓ Roadie	<i>Fixes stuff like guitars/drums</i>
✓ Instrument Technician	<i>The boss of the artist/band! Responsible for health/safety</i>
✓ Artistic Manager	<i>Book recordings/H&S</i>
✓ Venue Manager	<i>Sells tickets to live events!</i>
✓ Studio Manager	<i>Finds new talent to sign to labels</i>
✓ Promoter / Marketer	
✓ A&R	<i>Records the music in studio</i>
✓ Sound Engineer	<i>Plays in recordings or live shows</i>
✓ Session Musician	<i>Perfects finished recording</i>
✓ Mastering Engineer	<i>Makes the CD's to sell</i>
✓ Manufacturer	<i>Writes about music / reviews</i>
✓ Music Journalist	<i>Blogs about music / reviews</i>
✓ Blogger/Vlogger	<i>E.g. Radio Presenters</i>
✓ Broadcaster	<i>Codes musical software</i>
✓ Software Programmer	<i>Mixes/plays live music</i>
✓ DJ	<i>Sells merchandise!</i>
✓ Retailer	<i>Gets finished CD's to shops to sell (now also done online!)</i>
✓ Distributer	
✓ Stylist	<i>Works on the band/artist image</i>
✓ Accompanist	<i>Attends auditions, plays for a solo musician e.g. piano</i>

Major	Independent
<i>e.g. Warner, Sony, Universal</i>	<i>Smaller labels</i>
<p>Pros = lots of money, links with companies to promote and publish, lots of contacts, get the best deals for manufacturing, good links with advertising and media to promote and market artist/band</p> <p>Cons = difficult to stand out, less control over your music, contracts can be unfair</p>	<p>Pros = individual style of artist is important, more control over music, closer relationships, contracts more artist friendly</p> <p>Cons = not as much money, less publicity and promotion, not as organised/connected, less media contacts</p>

D. Venues/Health and Safety/Security

Large Venue = Arena
Small Venue = school hall/pub



Health and Safety

Risk Assessment = to identify and minimise risks
HSE = health and safety executive

Security

ID/Bags/Crowd Control



F. Publishing (pros and cons)

Major	Self-Publishing
Remember: Publishing Company = Composition OWNERSHIP	
<p>Pros = good distribution, payment often upfront (in advance), marketing and promotion is good</p> <p>Cons = signed through an agent (which means they take a cut!), harder to get published when the company is huge, more editing done on your work so less control</p>	<p>Pros = no need for an agent, send work directly, done on social media, more in control of editing, stepping stone to a larger company</p> <p>Cons = less money, less marketing and promotion</p>



What we are learning during this unit:	
A. Job Roles in the Music Industry	
B. Employment Patterns	
C. Record Labels (Pros and Cons)	
D. Venues / Health and Safety / Security	
E. Unions/Agencies/Trade Bodies	
F. Publishing (Pros and Cons)	
6 Key Words for this term	
1 E _____	4 R _____
2 M _____	5 U _____
3 I _____	6 P _____

B. Employment Patterns	
	___ days a week, Contract (holidays/sick pay and pension)
	___ days a week, Contract like full time.
	Self-employed, no long-term c____! No work = no p____
	P_____ = guaranteed work / security whereas casual is not secure, varies but does give more flexibility

C. Record Labels (pros and cons)

M _____	I _____
<i>e.g.</i>	<i>Smaller labels</i>
Pros = lots of money, links with companies to promote and publish, lots of contacts, get the best deals for manufacturing, good links with advertising and media to promote and market artist/band Cons = difficult to stand out, less control over your music, contracts can be unfair	Pros = individual style of artist is important, more control over music, closer relationships, contracts more artist friendly Cons = not as much money, less publicity and promotion, not as organised/connected, less media contacts

A. Job Roles in the Music Industry	
Key word	Key definition
✓ M _____	<i>Plays an instrument or voice</i>
✓ C _____	<i>Writes music e.g. films</i>
✓ S _____	<i>Writes songs</i>
✓ Record p _____	<i>Directs recording sessions</i>
✓ C _____	<i>Directs an orchestra / ensemble</i>
✓ L _____	<i>Monitors sound at live events</i>
Technician	<i>Moves equipment /sets up</i>
✓ R _____	<i>Fixes stuff like guitars/drums</i>
✓ I _____	<i>The boss of the artist/band!</i>
Technician	<i>Responsible for health/safety</i>
✓ Artistic M _____	<i>Book recordings/H&S</i>
✓ V _____ Manager	<i>Sells tickets to live events!</i>
✓ S _____ Manager	<i>Finds new talent to sign to labels</i>
✓ P _____ / Marketer	
✓ A& _____	<i>Records the music in studio</i>
✓ Sound E _____	<i>Plays in recordings or live shows</i>
✓ Session M _____	
✓ M _____ Engineer	<i>Perfects finished recording</i>
✓ M _____	<i>Makes the CD's to sell</i>
✓ Music J _____	<i>Writes about music / reviews</i>
✓ B _____ /Vlogger	<i>Blogs about music / reviews</i>
✓ B _____	<i>E.g. Radio Presenters</i>
✓ S _____	<i>Codes musical software</i>
Programmer	<i>Mixes/plays live music</i>
✓ D _____	<i>Sells merchandise!</i>
✓ R _____	<i>Gets finished CD's to shops to sell (now also done online!)</i>
✓ D _____	
✓ S _____	<i>Works on the band/artist image</i>
✓ A _____	<i>Attends auditions, plays for a solo musician e.g. piano</i>

D. Venues/Health and Safety/Security

L _____ Venue = _____
S _____ Venue = _____

Health and Safety
_____ = to identify and minimise risks
HSE = health and safety _____

Security

E. Unions/Agencies/Trade Bodies

Agencies

MCPS / PRS
_____ and the Performing Right S_____. *Collects royalties for musicians for physical formats like CD (MCPS) and live music (PRS)*

PPL = Phonographic Performance Limited.
Licenses the right to perform recorded music

Unions

Unions provide support for lots of people, they provide things like advice for freelancers on _____, handling disputes, and support in _____

MU = Musicians Union
Equity
BECTU = Broadcasting Entertainment Cinematograph Theatre Union

Trade bodies

_____ = Music Producers Guild
Represents people involved in producing recorded music

_____ = Professional Lighting and Sound Association
Represents those who work/supply technologies

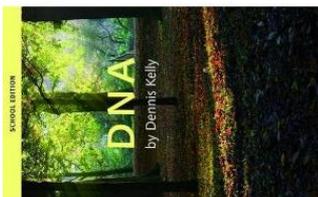
_____ = Association of Professional Recording Services
Represents those who work in the audio industry, e.g. recording studios/producers

F. Publishing (pros and cons)

M _____	S _____
Remember: Publishing Company = Composition O _____	
Pros = good distribution, payment often upfront (in advance), marketing and promotion is good Cons = signed through an agent (which means they take a cut!), harder to get published when the company is huge, more editing done on your work so less control	Pros = no need for an agent, send work directly, done on social media, more in control of editing, stepping stone to a larger company Cons = less money, less marketing and promotion



What we are learning this term:	
A.	How to develop our understanding of set design.
B.	How to apply the Stanislavski system to character development.
C.	How to interpret the director's creative intention in DNA.
D.	How to reflect, analyse and evaluate our development.



Who is Dennis Kelley?	Other Plays by Dennis Kelley
Dennis Kelly is renowned in the theatre for writing gritty and sometimes controversial plays, and has been writing consistently for theatre, film and television throughout the past 20 years. Kelly has written over 20 plays to date and continues to create gripping work. He received great acclaim for co-writing the book for Matilda the Musical with Tim Minchin, which won several awards, transferred to the West End in 2011 and toured the globe.	<ol style="list-style-type: none"> 1. Matilda 2. Love and Money 3. Orphans 4. Debris 5. Osama the Hero

Key Words:

Synchronisation – movement or speech that happens at the same time.

Physical & Visual Theatre - a form of theatre that puts emphasis on movement rather than dialogue

Chorus - those who perform vocally in a group as opposed to those who perform singly.

Soundscape – layered voices and sounds to create a location or atmosphere **Abstract** – representational and symbolic, not life-like or naturalistic

Sequence – an order of events/movements **Pattern** – a repeated phrase/sequence of movements

Naturalism - 'A slice of life' on stage. Naturalistic performances should aim to look like real life and do not acknowledge the audience.

Motivation - the reason a character does anything **Revelations** – when information is disclosed

Thought-tracking - Actors speak the thoughts of the characters they are representing. This is a useful way of finding out more about a character's reactions to other characters of the events they are experiencing. Other characters cannot hear the thought tracking, only the audience.

Climax – is a play or a specific scene's point of highest tension and drama

Narrative – the storyline and character's trajectory

The story Motif – A symbolic movement that captures the essence of a character or moment **Symbol** – is something which stands for, or represents something else.

Symbols -are often used in drama to deepen its meaning and remind the audience of the themes or issues it is discussing.

Essence Machine – A group performance that combines symbolic movement and sound to capture the essence of a something – this could be anything, for example, a character, a place, a feeling.

Key learning aims from Component 2

<i>Learning aim A: Develop skills and techniques for performance</i>	A1: Development of physical, vocal and interpretative skills. Introduction to developing skills and techniques; participation in naturalism workshops as well as exploring symbolic and abstract performance.
<i>Learning aim B: Apply skills and techniques in rehearsal and performance</i>	B1: Interpretation of two sections of DNA through a mixture of naturalism techniques inspired by Stanislavski to enter the minds of the teenagers. Minimalism, fantasy and symbolism to explore different ideas for production. Development of skills, techniques and interpretive skills leading to final performance in front of a live audience.
<i>Learning aim C: Review own development and performance</i>	C1: Review own development of skills and techniques for performance Evaluation of development of skills, responding to teacher/peer feedback and observations, identifying strengths and areas for development, setting actions and targets for improvement, referring to professional working practices.

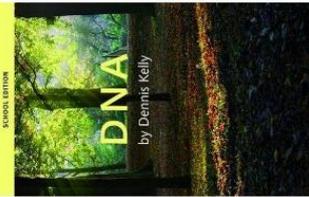
	Keywords linked to Assignment Brief
Physical skills	The physical attributes you need to be able to practically move with technical accuracy. Rehearsal – Practising to improve your performance.
Performance skills	The performance attributes you need to be able to practically perform applying confidence, a character, a narrative etc.
Reflect	Look over your current work and the work of others and be able to reflect and comment on your own and others practice. How does reflection lead to improvement?
Analyse	Watch and then analyse your own, and the group, performance by seeing where your strengths and weaknesses are and how these can be improved.
Apply	How you can then physically apply the physical and performance skills to a live performance to make a successful practical performance.

Component 2 – Key focus

This component is designed to give students a practical overview of the skills, techniques and practices required for the discipline of drama. You will explore the technique naturalism and apply them to the play: DNA. You will apply Stanislavski's naturalism to a section of the DNA script and perform to an audience. Through a series of workshops and rehearsals you will explore the different scenes of DNA as well as the direction's creative intention. Using symbolism, naturalism, minimalism and fantasy you will explore the motivations behind these characters and their heinous crime.



What we are learning this term:
<p>A. How to develop our physical and visual story telling techniques.</p> <p>B. The Frantic Assembly devising process through rehearsals.</p> <p>C. How to interpret the director's creative intention in A Curious Incident of a Dog in the Night-time.</p> <p>D. How to reflect, analyse and evaluate our development.</p>



Who is Dennis Kelley?	Other Shows by Dennis Kelley

Key Words:
<p>Synchronisation – _____</p> <p>Physical & Visual Theatre - a form of _____</p> <p>Chorus - those who perform _____</p> <p>Soundscape – layered _____</p> <p>Abstract – _____</p> <p>Sequence – an order of _____</p> <p>Naturalism - 'A slice of life' on stage. Naturalistic</p> <p>Motivation - the _____</p> <p>Thought-tracking - Actors _____</p> <p>. This is a useful way of finding out _____</p> <p>to other characters of the events they are experiencing. Other characters cannot hear the thought tracking, only the audience.</p> <p>Climax – is a play or a specific scene's point of _____</p> <p>and drama</p> <p>Narrative – the s _____</p> <p>e and _____</p> <p>The story Motif – A _____</p> <p>that captures the essence of a character or moment Symbol – is something which stands for, or represents something else.</p> <p>Symbols -are often used in drama to _____</p> <p>and remind the audience of the themes or issues it is discussing.</p> <p>Essence Machine – A _____</p> <p>that combines symbolic movement and sound to capture the essence of a something – this could be anything, for example, a character, a place, a feeling.</p>

Key learning aims from Component 2	
<p><i>Learning aim A: Develop skills and techniques for performance</i></p>	
<p><i>Learning aim B: Apply skills and techniques in rehearsal and performance</i></p>	
<p><i>Learning aim C: Review own development and performance</i></p>	

	Keywords linked to Assignment Brief
Physical skills	
Performance skills	
Reflect	
Analyse	
Apply	

Component 2 – Key focus
<p>This component is designed to give students a practical overview of the skills, techniques and practices required for the discipline of drama. You will explore the technique naturalism and apply them to the play: DNA. You will apply Stanislavski's naturalism to a section of the DNA script and perform to an audience. Through a series of workshops and rehearsals you will explore the different scenes of DNA as well as the direction's creative intention. Using symbolism, naturalism, minimalism and fantasy you will explore the motivations behind these characters and their heinous crime.</p>

Expand your knowledge and understanding!

<https://www.bbc.co.uk/teach/class-clips-video/plot-overview-dna-by-dennis-kelly/zf6kjhv>

Quirky Bird Theatre Company
The National Theatre Performance 2008

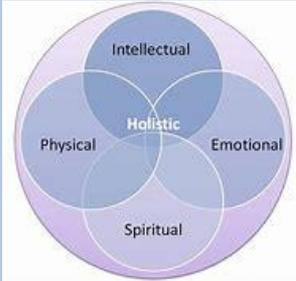
What we are learning in LAA:

- A. Key words
- B. Definitions of health and wellbeing
- C. Genetic inheritance

A. Key words for this Unit

Genetic inheritance	The genes a person inherits from their parents
Predisposition	Someone is more likely to suffer from a particular condition
Chronic	Gradual illness that is long term (longer than 3 months) and generally can be treated but not cured
Acute	A short-term illness that can be cured
Monitor	To check progress over a period of time.
Person-Centred	Planning care around the wants and needs of a service user
Bereavement	The process of coming to terms with the death of someone close.
Circumstances	Events that change your life, over which you have no control
Physiological	Relates to how a person and their bodily parts function normally.
Interpret	understand an action, mood, or way of behaving as having a particular meaning
Collaboratively	Working well together with other people or services
Obstacles	Difficulties a person might face when they implement a plan.
Goal	What you want to achieve in the long term
Norm	Something that is usual, typical or standard
Targets	Challenges to help you reach your goal

B Definitions of health and well-being

Positive Definition 	Looks at how physically fit and mentally stable a person is. You have a positive attitude towards health and wellbeing if you realise that there is something you can do to improve your health and wellbeing and do it.
Negative definition 	Looks at the absence of physical illness, disease, and mental distress. You have a negative attitude towards your health and wellbeing if you: <ul style="list-style-type: none"> • Base your attitude on not having anything wrong with you. • Continues as you are- Inc. keeping bad habits like smoking. • Assume that because you currently feel fine you will stay healthy in the future.
Holistic definition 	It is a combination of physical health and social and emotional wellbeing. It is not just the absence of disease or illness; it looks at all aspects of a person's health and wellbeing. You have a holistic attitude towards health and wellbeing if you look after your: <ul style="list-style-type: none"> • Physical Health: Be meeting the needs we have to keep our bodies working as well as they can, e.g. Food, water, shelter, warmth, clothing, rest, exercise and good personal hygiene. • Intellectual health: By meeting the needs we have to develop and keep our brains working as well as possible; these include mental stimulation to keep us motivated and interested. • Emotional aspects of wellbeing: By meeting the needs we have that make us feel happy and relaxed, e.g. being loved, respected and secure. Knowing how to deal with negative emotions, having positive self-concept and being respected by others. • Social aspects of wellbeing: By meeting the needs we have to help us develop and enjoy good relationships with others, including mixing with others in appropriate environments and having access to leisure facilities/ activities.

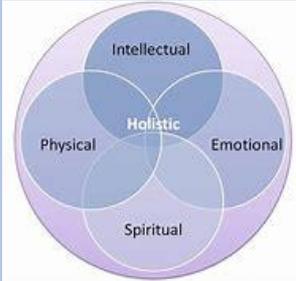
C. Genetic inheritance

Inherited physical Characteristics		Genes and environment	
<ul style="list-style-type: none"> • Children inherit their physical; characteristics from their parents e.g. height, skin and eye colour and hair type and colour. • These characteristics can affect social and emotional wellbeing because they influence a person's self-concept (self-image and esteem). 		<ul style="list-style-type: none"> • Chromosomes carry genes that determine aspects of persons physical makeup. • Gene is a section of DNA that carries a code. Different versions of a gene are called alleles (they can be faulty). • Environmental factors such as diet, also influence physical appearance. For example, a person may not grow to their full, genetically determined height if they do not have enough food. 	
Allele type	Dominant: If a gene is dominant a child inheriting it from only one birth parent will have the condition, e.g Huntington's disease.	Effects of inherited disorders	<ul style="list-style-type: none"> • Physical health: Body systems, growth and mobility • Intellectual wellbeing: learning, thinking, problem solving and decision making. • Emotional wellbeing: how people feel about themselves. • Social wellbeing: the ability to build relationships and maintaining them.
	Recessive: If the gene is recessive a child would only develop the condition if it was inherited from both birth parents, e.g. Cystic fibrosis.		

What we are learning in LAA:	
A.	Key words
B.	Definitions of health and wellbeing
C.	Genetic inheritance

A.	Define the key words for this Unit
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Genetic inheritance	
Predisposition	
Chronic	
Acute	
Monitor	
Person-Centred	
Bereavement	
Circumstances	
Physiological	
Interpret	
Collaboratively	
Obstacles	
Goal	
Norm	
Targets	

B	Definitions of health and well-being	
Positive Definition		
Negative definition		
Holistic definition		Definition:
		• Physical Health:
		• Intellectual health:
		• Emotional aspects of wellbeing:
		• Social aspects of wellbeing:

C.	Genetic inheritance		
	Inherited physical Characteristics		Genes and environment
	<ul style="list-style-type: none"> 		<ul style="list-style-type: none">
Allele type	Dominant:		Effects of inherited disorders
	Recessive:		
			<ul style="list-style-type: none">



What we are learning in LAA:

- D. Balanced diet
- E. Chronic and acute illness
- F. What are the effect of exercise?
- G. What are the effect of excessive substance use?

D.	Balanced diet
What is a balanced diet?	<ul style="list-style-type: none"> • Diet that contains the correct nutrients in the right proportions to keep out bodies and minds healthy. • It is also a lifestyle choice • Choosing to eat too much or too little might make us less able to take all the opportunities that life offers.
Overweight or underweight may:	<p>A person over weight or under weight may:</p> <ul style="list-style-type: none"> • Be prone to illness and conditions • Have their life expectancy reduced • Be less able to exercise effectively • Miss out on learning experiences • Miss out on some sporting activities • Be less successful in job interviews • Feel embarrassed and self-conscious about their appearance in social situations.
Essential parts of a healthy diet:	<ul style="list-style-type: none"> • Fats (saturated and unsaturated) • Carbohydrates (sugars and starches) • Minerals • Vitamins • Proteins
Est well guide says you should eat:	<ul style="list-style-type: none"> • Eat at least 5 portions of a variety of fruit and vegetables every day. • Base meals on potatoes, bread, rice, pasta or other starchy carbohydrates; choosing wholegrain versions where possible. • Have some dairy or dairy alternatives (such as soya drinks); choosing lower fat and lower sugar options. • Eat some beans, pulses, fish, eggs, meat and other proteins (including 2 portions of fish every week, one of which should be oily). • Choose unsaturated oils and spreads and eat in small amounts. • Drink 6-8 cups/glasses of fluid a day.
If you eat more than you need:	<ul style="list-style-type: none"> • The body will store food as fat and this can lead to: • Obesity, heart disease, high blood pressure, Strokes, Tooth decay or cancer
If you eat less than you need	<ul style="list-style-type: none"> • The body does not get enough nutrients to grow and develop properly and this can lead to: • Eating disorders, stunted growth, anaemia, heart failure, depression, tiredness, cancer or rickets.

E	Chronic or Acute Illness	
	<p>Chronic illness- Illness comes on gradually, is long term (more than 3 months) and generally can be treated but not cured. E.g Asthma, Diabetes, epilepsy, bipolar disease, Alzheimer’s disease</p>	<p>Acute illness- Illness comes on quickly, is short term and can be cured. E.g. Cold, flue, broken bones, heartburn, appendicitis or Diarrhoea.</p>
<p>Some chronic conditions are acute but may develop because of chronic conditions. For example: osteoporosis (a chronic condition that weakness bones) masking their bones fragile and more likely to break. Broken bones are then an acute condition.</p>		
Possible negative effects of chronic illness		
Physical:	<ul style="list-style-type: none"> • poor rate of growth • Unusual physiological change during puberty • Restricted movement 	Emotional: <ul style="list-style-type: none"> • Negative self-concept • Stress • Decision making
Intellectual:	<ul style="list-style-type: none"> • Disturbed learning because of missing school • Difficulties in thinking and problem solving • Memory problems. 	Social <ul style="list-style-type: none"> • Isolation • Loss of independence • Difficulties developing relationships

F.	What are the effect of exercise?	
Positive effects of exercise		<p>Physical: maintain a healthy weight, reduce BMI, boosting energy levels. Improved flexibility, stamina, endurance and stronger bones and muscles. Reduce risk of heart disease and diabetes.</p> <p>Intellectual: improved brain function like mentor and thinking skills.</p> <p>Emotional: improves confidence and mood and reduces stress. Aid relaxation and sleep and lead to better self concept.</p> <p>Social: encourages social interaction, reducing isolation and improving social skills.</p>
Negative effects of exercise		<p>Physical: Obesity and associated health problems.</p> <p>Intellectual: Reduced pain performance, hard to concentrate and retain information.</p> <p>Emotional: poor self-concept and reduced ability to cope with stress.</p> <p>Social: Fewer opportunities for social interactions.</p>

G.	What are the effect of excessive substance use?	
Negative effects of excessive alcohol consumption		<p>Physical: Alcohol dependence, damage to major organs: liver, heart, kidneys, pancreas. Cancers: mouth, throat, oesophagus, liver, breast. Infertility and impotence, weight gain.</p> <p>Intellectual: difficulty in making decisions, depression and anxiety, chance of stroke and brain damage, impaired brain development of unborn baby.</p> <p>Emotional: poor self-concept, poor judgement leading to a risk of accidents and unsafe sex, can have an impact on relationships, depression.</p> <p>Social: breakdown of relationships, domestic violence, social isolation</p>



What we are learning in LAA:

- D. Balanced diet
- E. Chronic and acute illness
- F. What are the effect of exercise?
- G. What are the effect of excessive substance use?

D.	Balanced diet
What is a balanced diet?	
Overweight or underweight may:	
Essential parts of a healthy diet:	
Est well guide says you should eat:	
If you eat <u>more</u> than you need:	
If you eat <u>less</u> than you need	

E	Chronic or Acute Illness	
	Chronic illness-	Acute illness-

Explanation:

Possible negative effects of chronic illness	
Physical:	Emotional:
Intellectual:	Social

F. What are the effect of exercise?

Positive effects of exercise 	<u>Physical:</u> <u>Intellectual:</u> <u>Emotional:</u> <u>Social:</u>
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Negative effects of exercise	<u>Physical:</u> <u>Intellectual:</u> <u>Emotional:</u> <u>Social:</u>
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G. What are the effect of excessive substance use?

Negative effects of excessive alcohol consumption 	<u>Physical:</u> <u>Intellectual:</u> <u>Emotional:</u> <u>Social:</u>
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What we are learning in LAA:

- H. The effects of social interactions on wellbeing
- I. What are the effects of stress on health and wellbeing
- J. What are the hazards of smoking
- K. What are the effects of personal hygiene

H. The effects of social interactions on wellbeing

Social integration	When people feel they belong to a group and can interact with others. Social interactions can happen between family members and friends, work colleagues, school learners, members of a community or interest groups.
Social isolation	Occurs when people do not have regular contact with others. This may be because they don't go out much because of physical illness, reduced mobility or unemployment. They might have a difficulty in communicating if they have a mental illness, depression or learning difficulties. Lastly, a person might be discriminated against because of culture, religion or disability.

Positive effects of relationships



Physical: physical support and day to day care and practical assistance.
Intellectual: shared experiences, supported learning and thinking
Emotional: unconditional love, security and encouragement, positive self-concept, feeling content, ability to build relationships with people outside the family, independence and confidence.
Social: Companionship, social circle increases.

Negative effects of social isolation

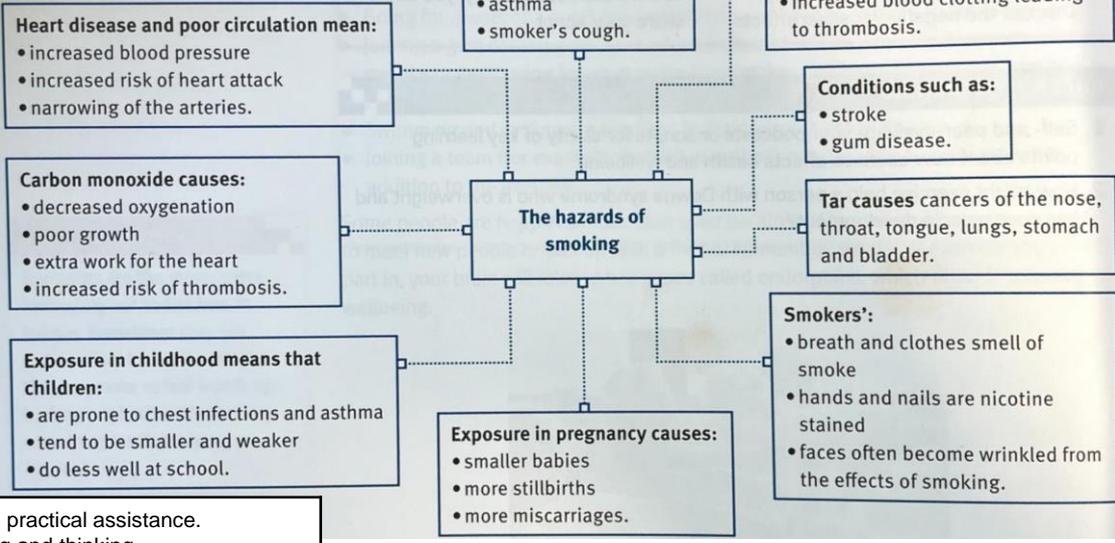


Physical: poor lifestyle choices like smoking and drinking, poor diet that can cause eating disorders.
Intellectual: reduced ability to use thinking skills, missing school/work
Emotional: feelings insecure, depression, anxiety, negative self-concept, feeling of hurt, loneliness and distrust, lack of independence, difficulty in controlling emotions.
Social: difficulties in building relationships as lack skills.

I. What are the effects of stress on health and wellbeing

Physical effects	Intellectual effects	Emotional effects	Social effects
Increased heartbeat Increased breathing rate Tense muscles Sweaty palms Dry mouth High blood pressure Loss of appetite Sleeplessness Digestive problems	Forgetfulness Poor concentration Difficulty in making decisions	Difficulty in controlling emotions Feeling insecure Negative self-concept Feeling anxious and frightened Loss of confidence	Difficulty in making friends and building relationships Breakdown of close relationships Social isolation

J. What are the hazards of Smoking



K. What are the effects of Personal Hygiene?

Positive effects of good personal hygiene	<ul style="list-style-type: none"> • Helps prevent the spread of infection • Improves self-concept • Reduces number of bacteria that lives on us. <p>You must:</p> <ul style="list-style-type: none"> • Brush you teeth • Shower daily or bath • Wash your hair regularly • Keep fingernails and toenails clean and trimmed
Negative effects of poor personal hygiene	<p>Physical: catching and spreading disease like food poisoning, sore throat, meningitis and athlete's foot. Bad body odour, bad breath and tooth decay. Emotional: loss of friendships and social isolation. Might be bullied and poor self-concept. Social: low social interactions as people don't want to be friends with someone that neglects their hygiene. Social isolation.</p>
When caring for others:	<ul style="list-style-type: none"> • Bad hygiene can stop effect communication. • Negative effect on the person being cared for and their health and wellbeing- pass on infection • Discomfort for the person being cared for because of the odour or visible dirt under fingernails.

J. What are the hazards of Smoking- draw out the mind map in the space below:

What we are learning in LAA:
 H. The effects of social interactions on wellbeing
 I. What are the effects of stress on health and wellbeing
 J. What are the hazards of smoking
 K. What are the effects of personal hygiene

H. The effects of social interactions on wellbeing	
Social integration	
Social isolation	

Positive effects of relationships 	<u>Physical:</u> <u>Intellectual:</u> <u>Emotional:</u> <u>Social:</u>
Negative effects of social isolation 	<u>Physical:</u> <u>Intellectual:</u> <u>Emotional:</u> <u>Social:</u>

I. What are the effects of stress on health and wellbeing			
Physical effects	Intellectual effects	Emotional effects	Social effects

K. What are the effects of Personal Hygiene?	
Positive effects of good personal hygiene 	<ul style="list-style-type: none"> • • • • • • • You must:
Negative effects of poor personal hygiene	<u>Physical:</u> <u>Emotional:</u> <u>Social:</u>
When caring for others:	<ul style="list-style-type: none"> • • •

What we are learning in LAA:

- L. What are the barriers to seeking help.
- M. What are the effects of unexpected life events on health and wellbeing
- N. What are the effects of economic factors (e.g, income) on health and wellbeing
- O. What are the effects of expected life events on health and wellbeing

L.	What are the barriers to seeking help.
Culture	<p>Accessing HSC services can be influenced by values, traditions, way of life and beliefs of the society or group.</p> <ul style="list-style-type: none"> • Some may have received discrimination when accessing other services. • Some may not speak English well enough. • Values and traditions not understood e.g. eye contact means respect in some cultures but not others. • Some cultures a woman must be treated only by a female professional. • Alternative therapies are used in some cultures
Gender	<p>Research shows that men are less likely to talk about their health and wellbeing than woman. This is because men are:</p> <ul style="list-style-type: none"> • Often less open about their feelings • Sometimes reluctant to appear vulnerable by asking for help • Not aware of poor health signs as health campaigns target women's health more • Unhappy to be examined by a female health worker.
Education	<p>Research shows that people who are better educated are more likely to seek help. This is because:</p> <ul style="list-style-type: none"> • They like to research symptoms and know when help is needed • Understand the importance of early diagnosis and treatment • Know how and where to access services.
Stigma	<p>In some cultural groups there is a stigma attached to certain condition like depression. Stigma is a word used to describe something that people feel embarrassed about. Therefore, they wouldn't seek help.</p>

M. What are the effects of unexpected life events on health and wellbeing

Life event	Positive Effects:	Negative Effects:
Imprisonment	<ul style="list-style-type: none"> • Depression • Loss of contact with family and friends • Social isolation • Restrictions on physical activity 	<ul style="list-style-type: none"> • Opportunity to study • Improvement in health through balanced diet, lack of alcohol, reduced use of nicotine
Redundancy	<ul style="list-style-type: none"> • Poor self-concept • Anxiety about finances • Fewer opportunities 	<ul style="list-style-type: none"> • Opportunities to study or train for a new job • More time to spend with family and friends
Exclusion or dropping out of education	<ul style="list-style-type: none"> • Loss of contact with friends • Social isolation • Poor self-concept • Lack of learning opportunities 	<ul style="list-style-type: none"> • Catalyst for change of behaviour • Opportunities for more suitable study or work situation

N.	What are the effects of economic factors (e.g, income) on health and wellbeing	
	Positive Effects:	Negative Effects:
Physical	<ul style="list-style-type: none"> • Better financial resources can result in good housing conditions and healthy diet • Manual jobs may improve muscle tone and stamina. 	<ul style="list-style-type: none"> • Low wages can affect diet and housing, leading to poor health. • Manual jobs can cause muscular and skeletal problems • Desk jobs lead to less activity and weight gain.
Intellectual	<ul style="list-style-type: none"> • Better financial resources can result in more leisure time for intellectual activities • Work, education or training helps to develop problem solving and thinking skills 	<ul style="list-style-type: none"> • Some people work very long hours to improve their financial position, leading to less leisure time and reduced learning opportunities. • Being unemployed can result in poor mental health.
Emotional	<ul style="list-style-type: none"> • A well-paid job gives a feeling of security. • Being financially secure promotes positive self-concept 	<ul style="list-style-type: none"> • Financial worried can result in stress and breakdown of relationships. • Unemployment or low-status work can lead to low self-concept
Social	<ul style="list-style-type: none"> • Better financial resources provide opportunities for socialising. • Work gives opportunities for socialising with colleagues. 	<ul style="list-style-type: none"> • Lack of financial resources reduces opportunities for socialising. • Unemployment reduces opportunities for relationships, leading to social isolation.

O. What are the effects of expected life events on health and wellbeing

Life event	Positive Effects:	Negative Effects:
Starting school, college or uni	<ul style="list-style-type: none"> • Build new relationships • Extend knowledge and learning • Develop new skills • Improve confidence 	<ul style="list-style-type: none"> • Anxiety about new routines and meeting new people • Insecurity about leaving parents and other families
Start a new job or career	<ul style="list-style-type: none"> • Develop independence • Improve thought processes • Improve self-concept 	<ul style="list-style-type: none"> • Stress about learning new skills and routines • Anxiety about meeting new people
Moving to a new house or area	<ul style="list-style-type: none"> • Excitement • Develop new friendships and relationships 	<ul style="list-style-type: none"> • Unhappiness at loss of old life • Stress of moving • Social isolation
Retirement	<ul style="list-style-type: none"> • Reduced stress • Time to socialise with family and friends • Opportunities for leisure of physical activities 	<ul style="list-style-type: none"> • Loss of relationships with colleagues • Possible loss of fitness and mobility • Loss of intellectual stimulation and status

What we are learning in LAA:

L. What are the barriers to seeking help.
 M. What are the effects of unexpected life events on health and wellbeing
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 O. What are the effects of expected life events on health and wellbeing

L.	What are the barriers to seeking help.
Culture	
Gender	
Education	
Stigma	

M.	What are the effects of unexpected life events on health and wellbeing	
Life event	Positive Effects:	Negative Effects:
Imprisonment		
Redundancy		
Exclusion or dropping out of education		

N.	What are the effects of economic factors (e.g, income) on health and wellbeing	
	Positive Effects:	Negative Effects:
Physical		
Intellectual		
Emotional		
Social		

O.	What are the effects of expected life events on health and wellbeing	
Life event	Positive Effects:	Negative Effects:
Starting school, college or uni		
Start a new job or career		
Moving to a new house or area		
Retirement		

What we are learning in LAB:
A. Physiological health indicators
B. What are health indicators?
C. Interpreting lifestyle data

A.	Physiological health indicators
Pulse	<p>Resting pulse rate is measured when a person has been still for about 5 minutes. Health reading for an adult is 60-100 bpm.</p> <p>Pulse rate during exercise: 220bpm minus the person's age.</p>
Blood pressure	<ul style="list-style-type: none"> This is the pressure exerted by blood against the artery walls. It is measured in millimetres of mercury (mm Hg) and is shown in two numbers: <ul style="list-style-type: none"> Systolic pressure: (the top number) is the maximum pressure in the blood vessels as the heart pushes out blood. Diastolic pressure: (the bottom number) as the minimum pressure in the vessels when the heart relaxes between the beats.
Peak flow	<ul style="list-style-type: none"> Measured how quickly you can blow air out of your lungs. it is measured in liters per min (L/min).
BMI	<ul style="list-style-type: none"> Measures the amount of fat on your body in relation to your height to tell you if your weight is healthy.

B.	<ul style="list-style-type: none"> What are health indicators?
Importance of understanding indicators	<ul style="list-style-type: none"> Detect health problems at an early stage Track improvements or deterioration in health Make recommendations about health and treatments Give advice about future health risks Support individuals to make different lifestyle choices.
What are lifestyle indicators?	<ul style="list-style-type: none"> These indicators can be used to assess risks to an individual's health and wellbeing now and in the future. Professionals collect information about lifestyle choices by asking about a person's: <ul style="list-style-type: none"> Weekly alcohol consumption Smoking habits Levels of physical activity and exercise.
What are physiological indicators?	<ul style="list-style-type: none"> They show how well the body's systems are functioning. Health professionals check a person's health by taking measurements. They compare the results with published guidance.

C.	Interpreting lifestyle data
<p>Interpreting data on smoking</p> 	<ul style="list-style-type: none"> Smoking causes around 96,000 deaths in the UK annually. Smoker under the age of 40 are 5 times more likely to have a heart attack than non-smoker. Smoking causes 80% of deaths from lung cancer, 80% of bronchitis and 14% of deaths from heart disease. More than 25% of all cancer deaths are caused by smoking. On average a smoker will die 10 years earlier than a non-smoker. Smokers are more likely to develop facial wrinkles. Smoking is a cause of impotence and can lead to sperm abnormalities.
<p>Interpreting data on alcohol</p> 	<ul style="list-style-type: none"> Strongly linked to at least 7 types of cancer Alcohol-related liver disease accounts for 37% of liver disease and deaths. 2/3s of cases of chronic pancreatitis are caused by heavy drinking You are between 2 and 5 times more likely to have an accident or injury Each drink per day increases the risk of breast cancer in woman between 7-13% Men and woman should not drink more than 14 units a week and not all in one go.
<p>Interpreting data on inactivity</p> 	<ul style="list-style-type: none"> Increased risk of breast cancer by 17.8% and colon cancer by 18.7% Increased risk of type 2 diabetes by 13%. Increased risk of coronary heart disease by 10.5% Leads to obesity and joint pain 16.9% of all premature deaths are caused by inactive lifestyle. Active people have a lower risk of premature death. People who are inactive visit their GP more often and they spend 38% more time in hospital.

What we are learning in LAB:
A. Physiological health indicators
B. What are health indicators?
C. Interpreting lifestyle data

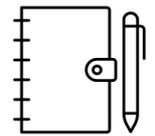
A.	Physiological health indicators
Pulse	Resting pulse rate : Pulse rate during exercise:
Blood pressure	• • • •
Peak flow	• •
BMI	•

B.	• What are health indicators?
Importance of understanding indicators	
What are lifestyle indicators?	
What are physiological indicators?	

C.	Interpreting lifestyle data
Interpreting data on smoking	
	
Interpreting data on alcohol	
	
Interpreting data on inactivity	
	

What we are learning in LAC:		C.	Recommended action to meet health and wellbeing improvement goals
A. What is a person-centred approach B. Health improvement plan C. Recommended action to meet health and wellbeing improvement goals D. SMART targets for health improvement plan E. Sources of support		To lower blood pressure: <ul style="list-style-type: none"> • Eat five or more portions of fruit and veg a day • Cut out salt • Use relaxation techniques to reduce stress • Join a gym • Drink water alongside alcohol to reduce consumption 	To reduce BMI: <ul style="list-style-type: none"> • Reduce fat and sugar intake • Do not exceed the recommended daily calories intake • Get off the bus a stop early and walk the rest of the way • Drink water instead of sugary drinks.

A.	What is a person-centred approach.
Person-centred approach	A holistic approach that puts the individual at the heart of health care planning, so that the whole range of physical, intellectual, emotional and social health needs are met.
When planning for health improvements include:	<ul style="list-style-type: none"> • The needs: physical, intellectual, emotional and social. • The wishes: likes, dislikes, choices and desired health goals. • Circumstances: illness or disability, access to facilities, previous experiences, family and relationships, responsibilities.
Benefits of person-centred approach:	<ul style="list-style-type: none"> • Will feel involved • Is more likely to trust a health professional who listen to them • Will feel more secure • Is more likely to follow the plan and achieve the targets • Will take responsibility for their own health.

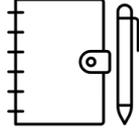


To increase peak flow reading: <ul style="list-style-type: none"> • Half the number of cigarettes smoked each day • Use nicotine replacement therapies • Join an exercise or dance class. 	To reduce pulse rate and improve recovery time after exercise: <ul style="list-style-type: none"> • Walk for half an hour at lunchtime • Drink decaffeinated drinks • Take up a physically active hobby • Join a yoga group.
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D.	SMART targets for health improvement plan
Specific	The target must be clearly stated. It should say exactly what you mean, such as to 'lose 2 kg in weight in a week'. The target should be clear and not open to any misunderstanding.
Measurable	A target of to 'lose weight' is too vague. A specific amount must be stated so you can prove you have met your target.
Achievable/attainable	If you are following a health and wellbeing improvement plan you must feel it is possible to achieve it. If you do not, you will probably give up before you have even started. An achievable target is to 'lose 1kg this week'. An unachievable target would be to 'lose 20kg this week'.
Realistic	The target set must be realistic in that you must be able to physically do it. It is not realistic to expect a person who is older and not very fit to run for 30 minutes a day to help weight loss, but it is realistic to ask the same of a fitter, younger person.
Time-related	The target must have a deadline, so that you know when you need to achieve the target by, and progress can be assessed.

B.	Health improvement plan
What is it?	Health and wellbeing improvement plans are often based on an individual's physiological and lifestyle indicators. Plans should be person-centred and include goals, actions and targets and possible sources of support.
The plan will identify:	<ul style="list-style-type: none"> • The health issues and goal • The recommended actions to take • A set of targets for health improvement • The supports that are needed • Possible obstacles to progress and way to overcome them.
Positive effects of a health improvement plan	<ul style="list-style-type: none"> • Be fitter • Lose weight • Have improved self-concept • Lower blood pressure, healthier heart • Reduced risk of cancer • Taking control of their health outcomes and reaching health goals

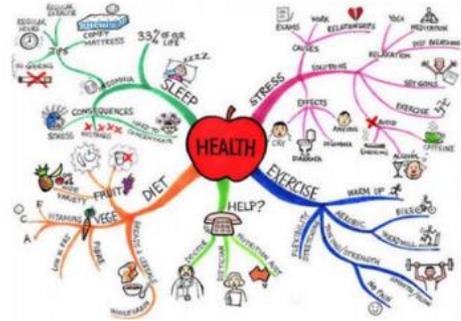
E.	Sources of support
Informal support	Informal support is the support an individual receives from partners, family and friends. It is usually the first form of support an individual experiences after and expected or unexpected life event. Informal support can provide reassurance, encouragement, advice, a sense of security, someone to talk through options with and practical help.
Professions (formal) support	Formal support may be provided by statutory care services (the state), private care services and charitable organizations. Professional support may include counsellors, teachers, careers advisers, occupational therapists, social workers and health specialists. Professional support may be needed to help people with a health condition, regain mobility, deal with life changes and emotions, get advice and information or change their lifestyle.
Voluntary support	Organizations offering voluntary support are charities, community groups and religious groups. At voluntary support services, many staff are volunteers (they work for free), but they also employ qualified people who are paid by donations. Community groups work at a local level to meet the needs of people living in a specific neighbourhood i.e. foodbanks. Religious groups are formed by people who share the same religious or spiritual beliefs but they help all people in need regardless of their beliefs and background i.e. a church run soup kitchen for the homeless.

What we are learning in LAC:		C.	Recommended action to meet health and wellbeing improvement goals	
A. What is a person-centred approach B. Health improvement plan C. Recommended action to meet health and wellbeing improvement goals D. SMART targets for health improvement plan E. Sources of support		<u>To lower blood pressure:</u>		<u>To reduce BMI:</u>
A.	What is a person-centred approach.			
Person-centred approach			<u>To increase peak flow reading:</u>	<u>To reduce pulse rate and improve recovery time after exercise:</u>
When planning for health improvements include:		D. SMART targets for health improvement plan		
Benefits of person-centred approach:		<u>Specific</u>		
		<u>Measurable</u>		
		<u>Achievable/attainable</u>		
		<u>Realistic</u>		
		<u>Time-related</u>		
B.	Health improvement plan	E. Sources of support		
What is it?		Informal support		
The plan will identify:		Professions (formal) support		
Positive effects of a health improvement plan		Voluntary support		

F.	What are the potential obstacle to implementing plans?	G.	What are the possible obstacles to accessing services?	
Emotional/psychological-Lack of motivation	<ul style="list-style-type: none"> • A conflict between choices such as worrying that giving up smoking could result in weight gain • Other priorities in a person's life- such as getting married or bereavement. • Having negative attitude- believing change will be too difficult • Lack of progress for example losing eight quickly in the first weeks but then slowing down. • Having a blip- thinking there is no point in continuing the plan after briefly returning to an old lifestyle. 	Type of obstacle	Possible obstacles	Suggestions to overcome obstacles
Emotional/psychological-Low Self-concept	<ul style="list-style-type: none"> • People with low self-concept don't value themselves, • Feel powerless to change their lifestyle or that there's no point in starting because the task seems too big. • Some thin that because they were unsuccessful in other aspects of their life, they won't achieve their health goals. • They may not feel they have support and approval from family and friends even if they really do. 	Geographical	<ul style="list-style-type: none"> • Service is difficult to get to because of poor bus or train services. 	<ul style="list-style-type: none"> • Arrange hospital transport • Suggest telephone helplines or internet support groups.
Emotional/psychological-Acceptance of the current state	<ul style="list-style-type: none"> • People my accept their present health problems or lifestyle choices, as it is easier to stay the same than to make changes. • Have no incentive to make a change because they do not understand the health risks. • Have no desire to change, for example, if they are happy with their weight or don't want to give up smoking. 	Financial	<ul style="list-style-type: none"> • Charges to use the services • Time off from work would mean loss of pay 	<ul style="list-style-type: none"> • Check for entitlements, such as medicines and treatments • Direct the person to advice on benefits and employee rights.
Time constraints	<p>People find that they do not have the time to achieve their health improvements targets because of:</p> <ul style="list-style-type: none"> • Care of young children, family members that are not well. • Regular and additional work and study commitments • Domestic chores • Medical appointments 	Psychological	<ul style="list-style-type: none"> • Fear of being judged because there is stigma around a health problem (mental health, obesity) 	<ul style="list-style-type: none"> • Talk about concerns and reassure • Direct the person to a charity that supports people with a particular health problem.
Availability of resources	<p>Financial obstacles:</p> <ul style="list-style-type: none"> • Gym memberships, entry fee for a swimming pool • Cost of attending exercise classes • Cost of travel to the gym. pool or to attend health appointments • Higher costs of some healthy foods. • Lack of and the cost of exercise equipment 	Physical	<ul style="list-style-type: none"> • Difficulty getting into the buildings where the service is provided (no wheelchair access). • No where to park near the service 	<ul style="list-style-type: none"> • Be aware of services that are adapted for easy access • Ask a friend or family member to drop the person off at the service
Unachievable targets	<ul style="list-style-type: none"> • Expectations too high • Targets are not clear • There are too many targets • Timing is wrong/poor • Targets are not suitable for the individual • Fear of not being able to meet targets • Not being in the right frame of mind to commit to the plan, e.g. due to depression. 	Personal needs	<ul style="list-style-type: none"> • Communication difficulties because of poor language skills, sensory or learning disability . • Concern that cultural needs are not understood 	<ul style="list-style-type: none"> • Provide support services that meet the person's needs, such as a BSL signer, interpreter, advocate • Use anti-discriminatory practice and encourage others to do so
Lack of support	<ul style="list-style-type: none"> • Diet- find it difficult if a person on a healthy eating plan is surrounded by others that eat junk food or tempted by the chocolate and biscuits in the cupboard, Family and friends go out for meals instead of doing other activities. • Smoking- friends and family smoking and offering them cigarettes. Lacking will power to quit. • Alcohol consumption- someone that is used to drinking with family and friends will find it difficult to stop without their support. It would be hard to quit if the family and friends drink wine with their meals, friends centre a night out around heavy drinking at pubs and clubs. 	Resources	<ul style="list-style-type: none"> • Limits on services, such as support aids and equipment • Staff shortages, leading to long waits for appointments and support. 	<ul style="list-style-type: none"> • Suggest sources of second-hand equipment • Look for alternative strategies, for example an exercise DVD if there are no places at an exercise class.
Ability, disability and addiction	<ul style="list-style-type: none"> • Understand what they need to do • Learn how to make the required changes in their lives. • Any places the person uses are wheelchair accessible • Any exercise advised is wheelchair friendly. • If stop smoking, then can put on weight- put people off. • Like the way alcohol makes them feel but cant admit that they have a problem 			

F.	What are the potential obstacle to implementing plans?	G.	What are the possible obstacles to accessing services?		
Emotional/psychological-Lack of motivation		Type of obstacle	Possible obstacles	Suggestions to overcome obstacles	
Emotional/psychological-Low Self-concept		Geographical			
Emotional/psychological-Acceptance of the current state		Financial			
Time constraints		Psychological			
Availability of resources		Physical			
Unachievable targets		Personal needs			
Lack of support		Resources			
Ability, disability and addiction					

CREATIVE IMEDIA – TERM 1 & 2 PLANNING AND REQUIREMENTS

Planning Item	Purpose	Contents	Example
Mood board	<p>Central focus of ideas, in one place.</p> <p>Generate ideas for a client to meet their approval.</p> <p>Used to share ideas and concepts.</p>	<p>Images</p> <p>Colours</p> <p>Text – Fonts, colours, styles, keywords</p> <p>Textures – Fabrics and other materials</p> <p>Digital – Sound and video clips</p>	
Mind Map / Spider Diagram	<p>Generate and outline ideas quickly.</p> <p>Develop and show links between thoughts, aspects and processes.</p> <p>Show a range of ideas and connections between them.</p>	<p>Central node with main theme.</p> <p>Sub-nodes with interconnecting lines/branches.</p> <p>Text.</p> <p>Images can also be used.</p>	
Visualisation Diagram	<p>Plan the layout of a still image in a visual manner.</p> <p>Shows how the finished item may look so that changes can be made if needed.</p> <p>Provides the graphic designer with information needed to create.</p> <p>To show a client what the product will look like.</p>	<p>Multiple images and graphics showing size and position.</p> <p>Colours and colour scheme.</p> <p>Position and style of text.</p> <p>Fonts to be used.</p> <p>Annotations providing more detail.</p>	

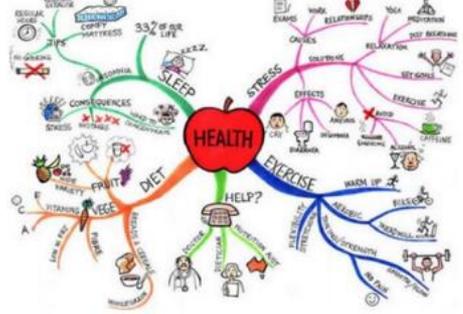
<p>Storyboard</p>	<p>Provide a visual representation of a how a media project will look. Provide a graphical illustration of a sequence of movements. Provide guidance on what scenes to film or create. Help visualise the characters and the scenes.</p>	<p>Images. Locations. Camera shot types and angles. Camera movement. Shot length and timings. Lighting. Sound.</p>	<p>"Beach Days" Page 3</p> <p>ALEX BARRAGED UNDER THE WATER</p> <p>HARRY SHAKES LINE AND DOLA VO: A Discovery Channel Original Movie. Based on actual events.</p> <p>ALEX JUMPS OFF BOAT AND OTHERS FOLLOW</p> <p>SHARK ATTACKS LOSTER IN CREEK ROTTEN: Search in the water!</p> <p>Discovery Channel Movie "12 Days of Terror". Storyboard by The Butler www.digitalschool.com @thegbutler.com</p>
<p>Script</p>	<p>Identify the location where the action takes place. Identify who will be in the scene. Provide stage directions for actors and production crew. Provide dialogue for actors.</p>	<p>Set locations. Scene descriptions. Scene/stage directions. Camera shot types. Camera movement. Sounds and sound effects. Names of actors/ characters. Dialogue.</p>	<p>101. BOAT'S OFFICE - DAY</p> <p>Hope is alone in the office. He is drinking. He looks up at the sound of noise. The passengers are screaming. Time to leave FOOTSTEPS.</p> <p>The door opens and in a split with slippers, Dan continues walking across the room. He walks directly to his private cabin. He looks down. He runs to where he is looking into Hope's eyes.</p> <p>HOPE Here we a group of accidents.</p> <p>Hope rises, and points a glass for the old man.</p> <p>HOPE We will see tonight before you will sleep, outside my window I can see your room for the night, and it is through the ventilation of hope. I think you should tell your son what happened today.</p> <p>HOPE I think I will see nothing. I was about to come up and when you was told you. That's all.</p> <p>HOPE But you need a drink first.</p> <p>See.</p> <p>HOPE How you had your drink.</p> <p>HOPE They were better on the economy. You're dead.</p> <p>HOPE You believe that. You think that just for a second but later will be back. I think you should tell your son what happened today. He should be back in front of him on the top of the deck and look into Hope's eyes.</p>

CREATIVE IMEDIA – TERM 1 & 2 PLANNING AND REQUIREMENTS

Requirements	Purpose	Content
Client	Clear statement of what is to be created / produced. Provides the developer / creators with an outline of expectations and constraints (timescale).	Statement of product. Purpose of the product. Target Audience Content Timescale Restrictions House Style (Colours/ themes)
Target Audience	Identifies who the final product is intended for. Provides the developer/ creators with the necessary information for them to design the product to appeal to the Target Audience.	Age Gender Location – Local, National, International Ethnicity – Background, Culture, Race, Religion, Language

Research	Definition	Examples
Primary Sources	Information is obtained <u>firsthand</u> from an original source.	Autobiography First hand account Diary Interview Video Footage Photo Official Records
Secondary Sources	Information is obtained second hand where somebody else has created the data.	Biography Second hand account History textbook Magazine Article Report Other people's products News Broadcast

CREATIVE IMEDIA – TERM 1 & 2 PLANNING AND REQUIREMENTS

Planning Item	Purpose	Contents	Example
Mood board			
Mind Map / Spider Diagram			
Visualisation Diagram			

CREATIVE IMEDIA – TERM 1 & 2 PLANNING AND REQUIREMENTS

Requirements	Purpose	Content
Client		
Target Audience		

Research	Definition	Examples
Primary Sources		
Secondary Sources		