100% book - Year 10 Mainstream

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



Term 5

Swindon Academy 2023-24					
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."





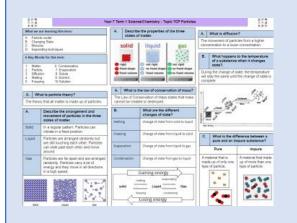






How to use your 100% book of Knowledge Organisers and Quizzable Organisers

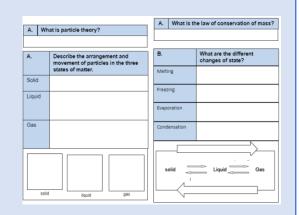
Knowledge Organisers



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

- 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	Step 2	Step 3
Check Epraise and identify what words /definitions/facts you have been asked to learn. Find the Knowledge Organiser you need to use. Ordinary Planer Planer	Write today's date and the title from your Knowledge Organiser in your Prep Book. A What is particle theory? The beay that all make is note; up diprices. A proper prices are a mapped and provide in the survey provides and investment of particles in the three states of maker. Solid in a register action. Price are an emproyed and provides are arranged and once	Write out the keywords/definitions/facts from your Knowledge Organiser in FULL. 29th May 2020 Properties of the states of matter Particle theory - all matter is note of particles Soild - regular pattern particles vibrate in fixed position Liquid - particles are arranged randomly but are asily southing each other Particles can still past each other and mare around. Ges - Particles are far apart and are arranged randomly. Perticles carry a late of energy
Step 4	Step 5	Step 6
Read the keywords/definitions/facts out loud to yourself again and again and write the keywords/definitions/facts at least 3 times. Solid = regular pattern perfiches vibrate in fixed position Solid = regular pattern particles vibrate in fixed position Solid = regular pattern perficles vibrate in fixed position	Open your quizzable Knowledge Organiser. Write the missing words from your quizzable Knowledge organiser in your prep book. A What is particle theory? A What is the law of conservation of mass? A Describe the arrangement and more states of matter. B. What is the law of conservation of mass? Never the provide the organizer and the organizer and the preparation of matter. Self quizzing Arrangement of particles in the organizer and the particles and the organizer and the	Check your answers using your Knowledge Organiser. Repeat Steps 3 to 5 with any questions you got wrong until you are confident. Particle theory - all matter is node of particles Solid - regular pattern porticles vibrate in fixed position Liquid - particles fre arranged randomly but are still touching each other and mare around Gas - Particles are for apart arranged randomly Particles carry - late of energy

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

ENGLISH -Poetry cluster 3: The Problem with Power - Grammar

Key Vocabulary		Poem	Context	Events in the poem	Message	Form/ structure
Patriotism	Being devoted to your country	Kamikaze- Beatrice Garland	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.	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.	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	When a powerful country takes control of a less powerful country	Checking Out Me History- John Agard	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 so sees the culture as both an insider from living there and an outsider from moving to Britain	The poem focuses on the omission of indigenous history and discusses how colonized people were forced to learn about British 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 Touissaint 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.	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.
Dominate	To have power and influence over others	The Émigrée- Carol Rumens	Carol Rumens was born in South London in 1944 Published her own poems and translations of Russian poems	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	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 use of enjambment reflects the chaos and confusion of her situation. The poem consists of
Defiance	Showing that you don't want to obey someone		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.	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	 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. 	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.
Isolated	To be far away from other people or places.			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.	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.	
Dictatorial	Telling people what to do in a forceful and cruel way	Storm on the Island- Seamus Heaney	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.	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.	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.	Heaney's use of iambic pentameter may appear strange given its use in traditional British poems. However he subverts the traditional structure by swapping
Nostalgia	A warm feeling for the past, particularly a very		 Seamus Heaney was a Catholic born in Northern Ireland in 1393. 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. 	Metaphorical: Heaney uses the storm as a metaphor for the conflict in Northern Ireland. The 'Islanders' suffer under enemy occupation with quiet resignations.	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.	the stressed and unstressed syllables on certain lines, resisting the regularity of British control.
	happy time	Tissue- Imtiaz Dharker	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	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	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 poem has an irregular structure and no rhyme scheme reflecting the irregularity of life
Fragility	being easily broken or damaged.	 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. 		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.	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.	and the lack of and predictability. The fragile structure Is symbolic of the fragile nature of our lives.

ENGLISH –Poetry cluster 3: The Problem with Power - Grammar

Key Vocabulary	The Big Ideas	Notes		
, ,	Garland questions the importance of honour and patriotism and			
Patriotism	demonstrates how we must have the individuality to learn for ourselves and not just to follow others.			
Colonialis m	Agard explores the importance of identity and the power of history and education.			
Dominate	Rumens demonstrates impact of dictatorial governments and the power of memory. She highlights the			
Defiance	need for compassion and empathy.			
Isolated	Heaney warns of the dangers of			
Dictatorial	enemy occupation and the emotional toll of silent resignation.			
Nostalgia	Dharker emphasises the fragility of life through the extended metaphor			
Fragility	of paper.			

ENGLISH -Poetry cluster 3: The Problem with Power- Sets 2-5

	ENGLISH –Poetry cluster 3: The Problem with Power- Sets 2-5					
Key Vocabulary		Poem	Context	Events in the poem	Message	Form/ structure
Patriotism	Being devoted to your country	Cardand Pouring WM2, 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.		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.	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	When a powerful country takes control of a less powerful country	Checking Out Me History- John Agard	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 sosees the culture as both an insider from living there and an outsider from moving to Britain	The poem focuses on the omission of indigenous history and discusses how colonized people were forced to learn about British 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 Touissaint L'Ouverture, the leader of the Haltian 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.	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.
Dominate	To have power and influence over others	The Émigrée- Carol Rumens	Carol Rumens was born in South London in 1944 Published her own poems and translations of Russian poems She has a 'fascination with elsewhere'	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	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 impriserants.	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
Defiance	Showing that you don't want to obey someone		The Emigree 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.			
Isolated	To be far away from other people or places.		Briting Selde Escewhele III the world.	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.	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.	writing about her homeland or give up her past.
Dictatorial	Telling people what to do in a forceful and cruel way	Storm on the Island- Seamus Heaney	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.	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.	attempt to control. Heaney presents the idea that life under constant enemy occupation can leave ghe people accepting this presence with sadness, but stop trying to do anything po	Heaney's use of iambic pentameter may appear strange given its use in traditional British poems. However he subverts the traditional structure by swapping
Nostalgia	A warm feeling for the past, particularly a very happy time			Metaphorical: Heaney uses the storm as a metaphor for the conflict in Northern Ireland. The 'Islanders' suffer under enemy occupation with quiet resignations.	 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. 	the stressed and unstressed syllables on certain lines, resisting the regularity of British control.
	усту парру сппс	Tissue- Imtiaz Dharker	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	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	display our power, nature will always outlast it. • Our relationship with paper is unhealthy. We rely on it too much to make reflect	The poem has an irregular structure and no rhyme scheme reflecting the irregularity of life and the lock of and
Fragility being easily broken or damaged.			my table. Most of the poems in that collection relate to religion, terrorism and global politics.	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.	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.	and the lack of and predictability. The fragile structure is symbolic of the fragile nature of our lives.

ENGLISH -Poetry cluster 3: The Problem with Power- Sets 2-5

Key Vocabulary	Poem	Context	Events in the poem	Message	Form/ structure
Rey Vocabulary	Kamikaze- Beatrice Garland				
Patriotism	Checking				
	Out Me History-				
Colonialis m	John Agard				
Dominate	The Émigrée- Carol Rumens				
Defiance					
Isolated					
Dictatorial	Storm on the Island- Seamus Heaney				
Nostalgia	Tissue- Imtiaz				
Fragility	Dharker				

ENGLISH -Poetry cluster 3: The Problem with Power- Sets 6-7

ENGLISH -Poetry cluster 3: The Problem With Power- Sets 6-7							
Key Vocabulary		Poem	Context	Events in the poem	Message	Form/ structure	
Patriotism	Being devoted to your country	Kamikaze- Beatrice Garland	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.	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.	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 italicas as first-person narrative, where the storyteller speaks directly for herself. This has the effect of heightening the sense of sadness she feels.	
Colonialism	When a powerful country takes control of a less powerful country	Checking Out Me History- John Agard	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 sossees the culture as both an insider from living there and an outsider from moving to Britain	The poem focuses on the omission of indigenous history and discusses how colonized people were forced to learn about British 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 Touissaint 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.	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.	
Dominate	To have power and influence over others	The Émigrée- Carol Rumens	Carol Rumens was born in South London in 1944 Published her own poems and translations of Russian poems	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	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 use of enjambment reflects the chaos and confusion of her situation. The poem consists of	
Defiance	Showing that you don't want to obey someone	The Émigré by living in The poems Emigrants a		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.	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	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 portraval of immigrants	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
Isolated	To be far away from other people or places.		on the second 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.	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.	writing about her homeland or give up her past.	
Dictatorial	Telling people what to do in a forceful and cruel way	Storm on the Island- Seamus Heaney • 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.		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.	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.	
A warm feeling for the past, particularly a very happy time			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.				
Fragility being easily broken or damaged.		Tissue- Imtiaz Dharker	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. Itsue is from her poetry collection called "the terrorist at	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	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	The poem has an irregular structure and no rhyme scheme reflecting the irregularity of life	
		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.		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.	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.	and the lack of and predictability. The fragile structure is symbolic of the fragile nature of our lives.	

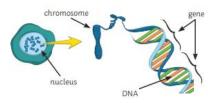
ENGLISH -Poetry cluster 3: The Problem with Power- Sets 6-7

Key Vocabulary			
Patriotism			
Colonialism			
Dominate			
Defiance			
Isolated			
Dictatorial			
Nostalgia			
Fragility			

Poem	Context	Events in the poem	Message	Form/ structure
Kamikaze-	During, the term 'kamikaze' was used for	The narrator of this poem is	The poem explores the conflict	Kamikaze is a
Beatrice Garland	The control of the co	The poem explores the moment	Through the pilot Garland may be expressing how.	
Garianu	They were expected to	The poem explores the moment	Through the pilot, Garland may be expressing how	Continue of the continue
	Themade the Kamikaze		The poem explores	Sections of the poem are presented in
	missions sound like	His neighbours and his wife	It also deals with the	
	It was claimed that	WICE	it also deals with the	
		His children and grandchildren		
Checking	Since the early, the	The poem focuses on how	Knowledge should not be	His use of italics
Out Me History-	country of			
John Agard				
	For centuries, nations would	Not only does the poem call attention to the how oppressive colonial education was, but it also	There is a sense of	The sing-song rhyme schem
		oppressive colonial education was, but it also		The sing-song myme schen
	They did this to	The poem suggests the curriculum deliberately	There is a warning that,	
		The poem suggests the curriculum deliberately		
	Born in			
The	Carol Rumens was born Published her own	An emigrant The speaker's home country appears to be	Rumens presents the importance of	The use of enjambment
Émigrée- Carol		The speaker's nome country appears to be		reflects the
Rumens	She has a 'fascination with The Émigrée is not autobiographical poem, but	Despite this, the émigrée's childhood memories are	The poem highlights the importance of	The poem consists of
	The Emily ee is not dates logiaphical poem, satisf	bespite this, the eningree's emulious memories are:	The poem ingring the importance of the	
	The poem sympathises with			
	Emigrants are		Memories are shown to be	
	Emgrandare			
Storm on	For many centuries,	The second secon	Heaney portrays nature as	Heaney's use of
the Island-	The majority of Northern Ireland's population were	There are two interpretations of this poemand	Heaney portrays nature as	Heaney's use of
Seamus		:The narrator describes how well	Heapey presents the idea that life under	r
Heaney	Seamus Heaney was	prepared they are for	Heaney presents the idea that life under	appear
		: Heaney uses the storm as a metaphor	He warns that the enemy can	
		for		
Tissue- Imtiaz	Imtiaz Dharker was	Tissue explores	Human power	
Dharker	Tissue is from	It is written from the point of view of	Our relationship with paper is	
			Human life is	
		The poem remarks how	- Hullian life 15	

T5 Y10 Grammar Biology Inheritance, Variation and Evolution

Cells and cell division

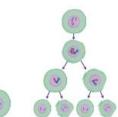


The chromosomes are in the nucleus of cells Humans have 46 chromosomes.

Chromosomes contain genes, which code for proteins. In body cells, chromosomes are in pairs – one from each parent.

In sex cells (gametes) they are not in pairs and there is half the number of chromosomes (e.g. 23 in humans)

<u>Cell division – two types:</u>



Mitosis (in all body cells)	Meiosis (in testes and ovaries)	
2 daughter cells	4 daughter cells	
Daughter cells = genetically identical	Daughter cells = not genetically identical	
Cell divides once	Two divisions	
Daughter cells have same number of chromosomes as original cell	Daughter cells have half the chromosomes as original cell	
Used for growth and repair.	Produces gametes for sexual reproduction	

Reproduction

Two types of reproduction – sexual and asexual.

	Sexual	Asexual
Number of parents	2	1
gametes used?	Yes	no
Variation in the offspring	lots	None (unless mutations occur) Offspring are clones

Sexual reproduction





The sperm and egg have half of the genes for the offspring. (in humans 23 chromosomes)
At fertilisation, the sperm and egg nuclei join. (23 + 23 = 46 chromosomes)

There are two genes for any one characteristic – one on the chromosome from mum and one from Dad Different forms of the same gene are called **alleles** If the alleles are the same, the person is **homozygous** If the alleles are different the person is **heterozygous**

E.g.:

B = brown hair (dominant) b = red hair

BB = homozygous, brown hair Bb = heterozygous, brown hair

bb = homozygous, red hair

Gene from each parent



How to complete a punnet square

If A = blue eyes, a = green eyes Calculate the probability of two heterozygous people having a green eyed









Step 1 Put one parents alleles into the boxes at the top

Step 2 Put the other parents alleles into the boxes down the side

Step 3 Write the alleles from parent one in all boxes underneath

Step 4
Put the alleles
from the
second parent
into the boxes
to the right

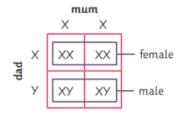
Probability

A green eyed child would have aa genotype.



One of these four has the type aa – that's $\frac{1}{4}$, 25% or 0.25.

Sex Determination



Females carry two X chromosomes (XX) Males carry one X and one Y chromosome (XY) 50% chance of male and female.

1. Put these in order from smallest to biggest:

Allele, Cell, Chromosome, Gene, Nucleus

- 2. What are the two types of cell division?
- 3. When does mitosis take place?
- 4. Where does meiosis take place?
- 5. How does the number of chromosomes in a gamete differ from those of a body cell?
- 6. What do genes do?

- 1. What are the two types of reproduction?
- 2. How many parents are needed for asexual reproduction?
- 3. What are the offspring of asexual reproduction known as?
- 4. What is the term for when a sperm and an egg join?
- 5. How many genes do we have for any single characteristic?
- 6. What term is used to describe a person that has two alleles that are the same for a particular characteristic?

- 1. What two sex chromosomes do females carry?
- 2. What two chromosomes do males carry?
- 3. What is the probability of having a boy?
- 4. Complete the punnet square:

	D	d
d		
d		

5. What is the chance of having an offspring with the allele pair dd?

T5 Y10 Grammar Biology Inheritance, Variation and Evolution

Inherited disorders

Cystic fibrosis

Disorder of cell membranes Caused by a recessive allele Causes thick mucus to form in membranes Main organs affected are lungs, digestive & reproductive organs – pancreas and intestines.

Alveoli get blocked with mucus Increases diffusion path so less O_2 gets into the blood



o d	Father
-----	--------

	С	С
С	CC	Cc
С	Cc	СС

Polydactyly

Disorder of the hands and feet Caused by a dominant allele Causes extra digits, fingers and toes.



Embryo screening

Parents that have inherited disorders may opt for embryo screening

- 1. Multiple embryos are made in IVF
- 2. One cell is removed from each embryo
- 3. The cells are screened for faulty genes
- 4. Only embryos without the genes for disorders are transferred to the womb of the mother.
- + Babies born free of that inherited disorder
- no guarantee child will be free of other health issues
- Many embryos are destroyed, which are potential human lives

Variation

May be due to differences in:

- Genes that have been inherited(genetic causes)
- Conditions which they have lived in (environmental causes)
- Combination of genes and the environment.

Mutation = a change in the DNA during copying (randomly). Often has no effect on the gene, but sometimes leads to new proteins being made and a new characteristic being seen

Evolution

Evolution = a change in inherited characteristics of a population over time through natural selection – could lead to a new species.

A **species** is a group of organisms that can successfully breed.

Theory of evolution states that all species have evolved from a simple life forms more than 3 billion years ago.

Natural Selection

Described by Darwin

- 1. **Variation** within a species different genes. (due to **mutation**)
- 2. One gene may give characteristics that are better **adapted** for survival in the environment.
- 3. Those with **advantageous genes** will survive and reproduce passing genes to **offspring**.
- 4. Over long periods of time, all members of that species have the characteristic, may even lead to a new **species**.

Extinction

Extinction = no remaining individuals of a species still alive on Earth.

Factors which could cause extinction:

- New disease
- Rapid change in environment (e.g. meteor/volcano eruption)
- New predators
- New competitors (often man)

Evidence for evolution Fossils



Fossils are the remains of plants or animals from millions of years ago:

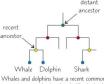
They are formed in different ways:

- Remains of an organism that has not fully decayed as one of the decay conditions was absent (e.g. too cold, not enough O₂)
- Mineralised forms of the harder parts of an organisms (such as bones)
- Traces of organisms such as footprints or burrows.

Many early life forms were **soft bodied** so have left few traces behind, as they decayed so we cannot be sure how life started on Earth. Many have been destroyed by Earth's rock cycle. Fossils help us understand how much or little organisms have changed as life developed on Earth.

Evolutionary trees

Show how species have volved from and are related to others



Whales and dolphins have a recent common ancestor so are closely related. They're both more distantly related to sharks.

T 5	T5 Y10 Grammar Biology Inheritance, Variation and Evolution						
1.	What is cystic fibrosis a disorder of?	1. What are the two causes of variation?	1. What does 'extinct' mean?				
2.	Is the allele for cystic fibrosis dominant or recessive?	2. What is a mutation?	2. What are fossils?				
3.	Why do cystic fibrosis sufferers struggle to get oxygen into the body?	3. Which scientist proposed the theory of evolution by natural selection?	3. Describe one way fossils can form				
4.	What is polydactyly?	4. What is the theory of evolution?	4. What do fossils show us?				
5.	Is the allele for polydactyly dominant or recessive?	5. What is a species?	5. Why is the fossil record				
6.	Give one advantage of embryo screening	6. Why do mutations sometimes lead to new characteristics being seen?	incomplete? 6. What factors can cause extinction?				
7.	Give one disadvantage of embryo screening						

T5 Y10 Grammar Biology Inheritance, Variation and Evolution

Resistant Bacteria

- Bacteria **evolve** rapidly as they reproduce at a fast rate. (reproduce approx. every 20 mins)
- Mutations of bacteria can produce new strains.
- Some strains are **resistant** to antibiotics (so are not killed).
- They **survive** and **reproduce** population of resistant strain rises.
- Resistant strain will spread because people are not **immune** and there is no effective treatment.
- MRSA is resistant to antibiotics.



There is variation in the bacterial population. One bacterium develops a mutation by chance that means it is resistant to an antibiotic.







The antibiotic kills the rest of the non-resistant bacteria so the person may start to feel a little better. The resistant bacterium has survived the antibiotic and continues to multiply.

How to reduce antibiotic resistant strains:

- Doctors should not prescribe antibiotics for viral infections
- Patients must complete courses of antibiotics
- Agricultural use of antibiotics should be restricted.

Genetic Engineering

- Process which involves modifying the **genome** of an organism by introduction a gene from another organism to give a **desired characteristic**.

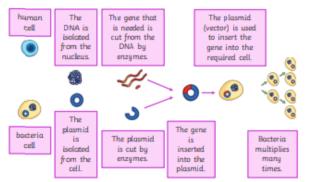
Uses of genetic engineering:

- Plant crops to be **resistant** to diseases or produce bigger, better fruits.
- Bacteria cells to produce useful substances, such as human insulin to treat diabetes.

Genetically modified (GM) crops

defletically filodified (divi) crops						
Advantages	Disadvantages					
Resistant to insect attack	Not sure on long term effects when eating GM crops					
Produce increased yields	Could affect populations of wild flowers and insects					

Process of Genetic Engineering (HT only)



Selective Breeding

- Process which humans breed plants and animals for particular **genetic characteristics**.

Steps of selective breeding:

- 1. Choose a male and female with **desired** characteristics.
- 2. Breed together
- 3. Pick the offspring which have the desired characteristic and breed together.
- 4. Continue over many generations, selecting the best offspring each time, until all offspring show desired characteristics.

Classification

Linnaeus classified things into: Kingdom, phylum, class, order, family genus and species.

Organisms are named by the **binomial system** of genus and species. (2 names)

Due to evidence from chemical analysis, there is now a 'three-domain system' by Carl Woese:

Domain	bacteria	archaea	eukaryota				
Kingdom	eubacteria	archaebacteria	protista	fungi	plantae	animalia	

T5 Y	T5 Y10 Grammar Biology Inheritance, Variation and Evolution						
1.	Why do bacteria evolve rapidly?	1.	What is genetic engineering?	1. 1. What is selective breeding?			
2.	What can cause new strains of bacteria?	2.	State two uses of genetic engineering.	Describe the four stages of selective breeding.			
3.	Name a bacteria which is resistant to antibiotics.	3.	What does 'GM' stand for?	3. Why might a characteristic be chosen?			
		4.	State two advantages of GM crops.				
4.	What are the three ways to reduce antibiotic resistance strains?			Give 3 examples of characteristics humans may choose.			
		5.	State two disadvantages of GM crops.				
		_	Describe the eteror of counties				
		6.	Describe the stages of genetic engineering (HT only).	 How did Linnaeus classify organisms? 			
				What are Carl Woese's three domains?			
				3. What does 'binomial' mean?			

Vocabulary: Suspension, Formulation

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



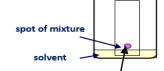
Chromatography

- 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



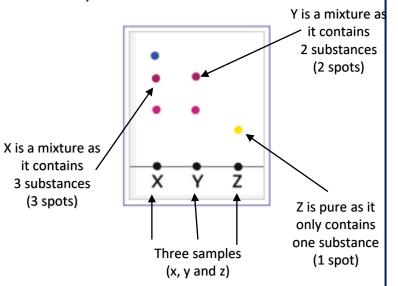
- The solvent then moves through the stationary phase.

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

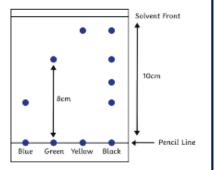
The spot and start line must be **above the solvent line** so the colours won't just wash into the solvent in the beaker.



Rf Values

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

- 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:

8cm / 10cm = 0.8

T5	T5 Y10 Grammar Chemistry Chemical Analysis							
1.	What is a pure substance?	1.	What is chromatography used for?	1.	How do you calculate the Rf value?			
2.	How can you test that a substance is pure?	2.	What determines how far the substance travels?	2.	Rf values should always be between			
		3.	What is the mobile phase in paper chromatography?	3.	Use a ruler to measure the distance the solvent moved in the diagram below.			
		4.	What is the stationary phase in paper chromatography?	4.	Use a ruler to measure how far the yellow spot moved			
1.	What is a formulation?	5.	How would you be able to identify a pure substance on a chromatogram?	5.	Calculate the Rf value for yellow			
2.	Give 3 examples of formulations.	6.	Draw and label a diagram of the experiment to Investigate how many different colours there are in food colouring using paper chromatography.	8	Solvent Front Pencil Line			
				8	Blue Green Yellow Black			

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.

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**.

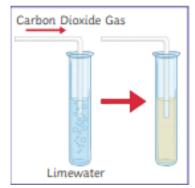




Test for Oxygen – Place a **glowing** splint inside a test tube. The splint will **relight** in the presence of oxygen.

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**.

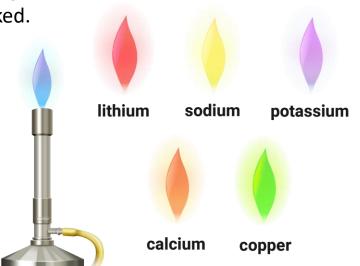
T5	Y10 Grammar Chemistry Chemical Analy	rsis
1.	Describe how you would carry out paper chromatography to separate and identify the different colours in food dye.	1. Describe the tests and the positive results for:
		a) Hydrogen
		b) Carbon dioxide
2.	Why is a pencil used instead of a pen?	c) Oxygen
3.	Why do you not fill the solvent above the pencil line?	
		d) Chlorine
4.	Why might water not work as a solvent?	

Flame test

Flame tests can be used to identify some metal ions (cations). Lithium, sodium, potassium, calcium and copper compounds produce distinctive colours in flame tests:

- lithium compounds result in a crimson flame
- sodium compounds result in a yellow flame
- potassium compounds result in a lilac flame
- calcium compounds result in an orange-red flame
- copper compounds result in a green flame.

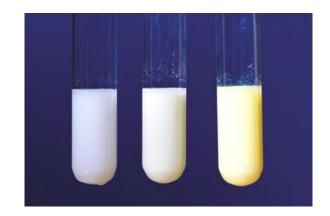
If a sample containing a mixture of ions is used some flame colours can be masked.



Halides

Halide ions in solution produce precipitates with silver nitrate solution in the presence of dilute nitric acid.

Silver chloride is white, silver bromide is cream and silver iodide is yellow.



Sulfate ions

Sulfate ions in solution produce a white precipitate with barium

T5	Y10 Grammar Chemistry Chemical Analys	sis	
1.	Why do we do flame tests?	1.	What do we reacts the halides with to test for them?
2.	What colour does lithium go in a flame?	2.	What colour does chlorine go?
		3.	What colour does bromine go?
3.	What colour does sodium go in a flame?	4.	What colour does iodine go?
4.	What colour does potassium go in a flame?		
5.	What colour does calcium go in a flame?		
6.	What copper does lithium go in a flame?		
		5.	What is the test for sulphate ions?
		6.	What is the result of a positive test?

Metal hydroxides

Sodium hydroxide solution can be used to identify some metal ions (cations).

Solutions of aluminium, calcium and magnesium ions form white precipitates when sodium hydroxide solution is added but only the aluminium hydroxide precipitate dissolves in excess sodium hydroxide solution.

Solutions of copper(II), iron(II) and iron(III) ions form coloured precipitates when sodium

hydroxide solution is added.

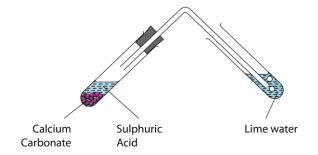
Copper(II) forms a blue precipitate, iron(II) a green precipitate and iron(III) a brown precipitate.

 $CuSO_4 + 2NaOH \rightarrow Cu(OH)_2 + Na_2SO_4$

Carbonates

Carbonates react with dilute acids to form carbon dioxide gas.

Carbon dioxide can be identified with limewater, it will go cloudy.



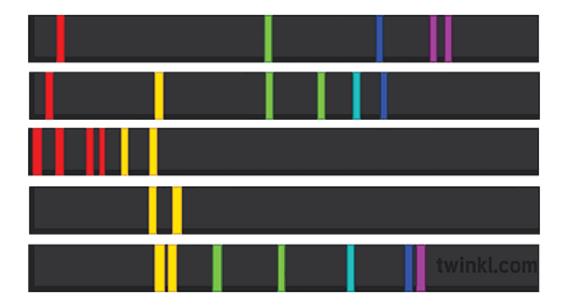
TE	V10 Grammar Chamistry Chamical Analysis
13	Y10 Grammar Chemistry Chemical Analysis
1.	What test do we do to test for some metal ions (cations)?
2.	What is seen when this test reacts with these aluminium ions?
3.	What is seen when this test reacts with these calcium ions?
4.	What is seen when this test reacts with these magnesium ions?
5.	What is seen when this test reacts with these copper (II) ions?
6.	What is seen when this test reacts with these iron (II) ions?
7.	What is seen when this test reacts with these iron (III) ions?
1.	What is the tets for carbonates?
2.	How can you test sthat carbon dioxide has been produced?

Instrumental methods

Elements and compounds can be detected and identified using instrumental methods. Instrumental methods are accurate, sensitive and rapid. Students should be able to state advantages of instrumental methods compared with the chemical tests in this specification.

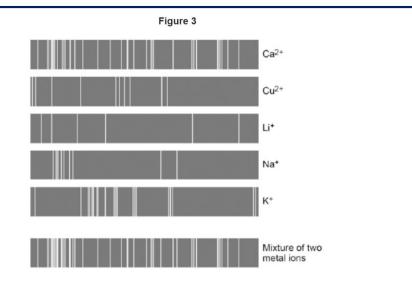
Flame emission spectroscopy

Flame emission spectroscopy is an example of an instrumental method used to analyse metal ions in solutions. The sample is put into a flame and the light given out is passed through a spectroscope. The output is a line spectrum that can be analysed to identify the metal ions in the solution and measure their concentrations.



1. What are the 3 things that are advantageous about instrumental techniques?

- 1. Name 3 metal ions that are in the sample from the picture
- 2. What is the reason to do flame emission spectroscopy?



T5 Y10 Grammar Physics Light

Reflection

Definition: The change of direction of a light ray or wave at a boundary when the incident ray stays within the medium.

Law of reflection

The angle of incidence = angle of reflection

Specular reflection

Definition: Reflection from a smooth surface. Each light ray is reflected in a single ray.

Diffuse reflection

Definition: Reflection from a rough surface. The light rays are scattered in different directions





specular reflection on a smooth surface



a rough surface

Ray diagrams

- You need to construct **ray diagrams** to show how a wave is **refracted** at the boundary of a different medium.

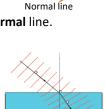
Less dense → More dense (e.g. air to glass)

- Ray **slows down** and bends **towards the normal** line.

More dense → Less dense (e.g. glass to air)

- Ray speeds up and bends away from the normal line.

The ray bends because different parts of the wavefront cross the boundary at slightly different times –



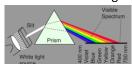
glass block

Normal line

If wave hits medium at an angle of 90° then the ray will slow down but will not be refracted.

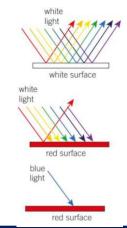
Colour

White light can be split into the colours of the rainbow, each with a different wavelength



Primary and secondary colours

Red + yellow = green
Green + blue = cyan
Blue + red = magenta
Green + blue+ red = white



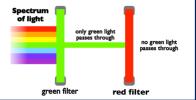
A white object looks white because it reflects all the wavelengths of visible light that reach it.

A <u>red</u> object looks red because it **absorbs** all the wavelengths of light except red. Only red light is **reflected**.

If only <u>blue</u> light is shone on a red surface it is **absorbed**, and <u>no</u> light is **reflected**, so the surface looks black

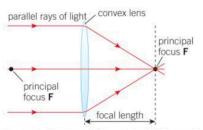
Filters

Filters change the colour objects appear as the only let certain wavelengths of light through. A green filter absorbs all colours except green, and transmits only green light



T5	T5 Y10 Grammar Physics Light							
1.	What is reflection?	1.	What happens when a ray goes from a less dense → more dense medium?					
2.	Draw a labelled diagram to show reflection of a ray of light by a mirror.	2.	What happens when a ray moves from a more dense → less dense medium?					
		3.	What is the line at 90° to a surface called?					
3.	What is specular reflection?	4.	4. What happens if a ray hits a medium at 90°?					
4.	What is diffuse reflection?							
1.	What are the primary colours of light?							
2.	Why does a red object look red?							
3.	Why does a blue filter make everything appear blue?							

T5 Y10 Grammar Physics Light



Convex (Converging) Lenses make parallel rays of light converge to meet at the principal focus. Focal length = distance from centre of lens to principal focus

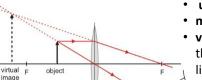
object lens image

To draw a ray diagram:

Draw two rays from the top of the object

- 1. A ray parallel to the principal axis, which is refracted through the principal focus.
- 2. A ray through the centre of the lens, which does not change direction.
- 3. To create the image, draw an arrow from the principal axis to the point where the rays meet.

The image <u>above</u> is **inverted** (upside down), **diminished** (smaller than the object) and **real** (the rays of light pass through it).

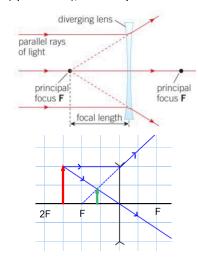


This image is

- upright (right way up),
- magnified (larger than the object)
- virtual (rays of light don't pass through it); represented by dotted lines

Convex lenses can produce **real** or **virtual** images.

<u>Concave (Diverging) Lenses</u> make parallel rays of light diverge (spread out), as if they have come from the principal focus of the lens



To draw a ray diagram:

Draw two rays from the top of the object

- 1. A ray parallel to the principal axis, which is refracted as if it came from the principal focus on the same side of the lens.
- 2. A ray through the centre of the lens, which does not change direction
- 3. To create the image, draw an arrow from the principal axis to the point where these rays appear to meet.

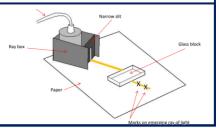
Concave lenses always produce virtual images.

Magnification: If the image is bigger than the object the magnification is greater than 1. If the image is smaller than the object, the magnification is less than 1.

Magnification is a ratio and so does not have units.

 $Magnification = \frac{Image\ size}{Actual\ size}$

Required Practical: use different substances and surfaces to investigate refraction and reflection of light

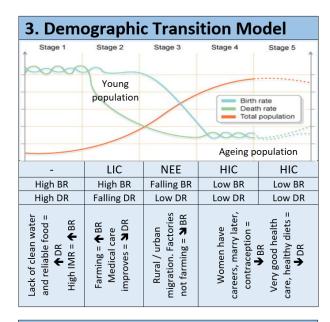


T5 Y10 Grammar Physics Light			
1. What does a convex lenses do to parallel rays of light?	1. What does a concave lenses do to parallel rays of light?		
2. How do you draw a ray diagram for a convex lens?	2. How do you draw a ray diagram for a concave lens?		
	3. What type of does a concave lens produce?		
3. What is a real image?	1. What is the formula to calculate magnification?		
4. What is a virtual image?	2. What does a magnification of less than 1 mean?		
	1. What equipment would you use to investigate the refraction of light through a glass block.		
5. What type of does a concave lens produce?			

1. What is development?		
Term	Term Definition	
		The progress of a country in terms
Developm	ient	of economic growth, the use of technology and human welfare.
Uneve	n	Development takes place at
developm	ent	different rates in different places.
Developm gap	nent	The difference in standards of living and wellbeing between the world's richest and poorest countries.
Quality of	Ganaral wallbaing (includes health	
Standard living	lof	Level of wealth and material goods available to people. \$
Econom developm		Progress in an economy. New technology can lead to a move from agriculture to industry.
1	Ways to classify the world	
LIC	Low income countries. GNI per capita of under \$1,045. (Poor) e.g. Haiti.	
NEE	Newly Emerging Economies. Countries that have begun to experience high rates of economic development, with rapid industrialisation. e.g. Nigeria	
HIC	High Income Countries. GNI per capita of over \$12,746. (Rich) e.g. UK.	
Brandt line	An outdated line from the 1980's that split the world into rich north and poor south.	

5. Consequences of uneven development		
Disparities	Most developed countries> most wealth	
in wealth	Africa owns just 1% of global wealth.	
Disparities	Health care in LICs poor = Ψ life expect	
in health	UK LE is 81 years. Nigeria LE is 52 years	
International	Poor try to migrate to HICs.	
migration	Mexico into USA. Syrians into Europe.	
	Economic migration also occurs.	

2. Measuring development		
Term	Cat. Definition	
Arrows show	how th	ne indicator changes with development.
GNI per capita	š 7	Gross National Income per person. Total income divided by the size of the population. Doesn't show inequality within a country. It's just an average.
Birth rate	‡	The number of babies born in a year per 1000 of the population. +Reliable- infers female equality.
Death rate	† 2	The number of people that die in a year per 1000 of the population. - Less reliable. HICs now have an ageing population- > DR
Infant	ŧ	The average number of deaths of
mortality		infants under the age of 1, per
rate	7	1000 live births per year.
Life expectancy	7	The average number of years a person might be expected to live Less reliable for a LIC due to IMR making it look lower
People per doctor	† 2	The number of people who depend on a single doctor for their health care needs
Literacy rate	† 7	The percentage of people who have basic reading / writing skills.
Access to safe water	7	The percentage of people who have access to water that does not carry a health risk such as cholera
HDI	š †	Human Development Index. A combined measure that includes GNI per capita, life expectancy and adult literacy rate. Out of 1. + Best indicator as it includes and data. Removes anomalies
Generic limitations		can be out of date or unreliable. ualities exist within countries.

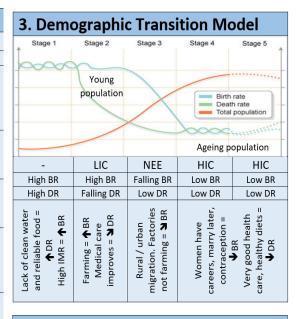


4. (Causes o	of uneven development	
Cat	Factor	Explanation	
cal	Natural disasters	Government <u>has to</u> spend money rebuilding rather than education. eg Haiti has had EQs and TS	
hysical	Land-	No coastline. This hindered trade	
Ph	locked	keeping the GNI low. E.g. Nepal.	
	Extreme	If it's too hot or cold agriculture is	
	climates	difficult. E.g. Thar Desert	
Economic	Debt	A country's money will go to repaying debt rather than education.	
lou	Selling	These are low value goods so the	
Eco	primary products	government has restricted income to invest in health care.	
Historical	Colon- ialism	European countries controlled much of Africa and Asia. After regaining power they were poor and civil wars often occurred. eg Nigeria- UK colony	
	War	Money spent on arms. E.g. Sudan	

1. What is development?		
Term		Definition
D 1		
Developm Uneve		
developm		
developii	ient	
Developm	nent	
gap		
Quality of	flife	
Standard	of	
living		
Econom	nic	
developm		
1	Way	s to classify the world
	_	<u> </u>
LIC		
NEE		
HIC		
Brandt		
line		
5. Consequences of uneven development		
Disparities	in	
wealth		
Disparities	in	
health		

International migration

2. Measuring development		
Term	Cat.	Definition
Arrows show	how th	e indicator changes with development.
GNI per capita	š 7	
Birth rate	† 2	
Death rate	† 2	
Infant mortality rate	† 2	
Life expectancy	† 7	
People per doctor	7	
Literacy rate	† 7	
Access to safe water	† 7	
HDI	š †	
Generic limitations		



4. Causes of uneven development		
Cat	Factor	Explanation
al	Natural disasters	
Physical	Land- locked	
	Extreme climates	
mic	Debt	
Economic	Selling primary products	
Historical	Colon- ialism	
	War	

6. Strateg	ies to reduce uneven development	FAT MIDII
Strategy	Explanation	Evaluation
	When producers in LICs are guaranteed a fair price for the goods	+ Improves quality of life
Fairtrade	they produce <u>ie</u> cocoa, coffee. The better price improves income,	- Poorest can't afford
	aids community projects and protects the environment.	certification
	When a country or non-governmental organisation donates	+ Improves quality of life
Aid	resources or money to another country to improve people's lives.	- Aid may be tied
	Short term emergency aid or long-term aid. Nigeria- NETS4Life.	- Corruption of aid
Tourism	Visitors spend money in a country and infrastructure is improved.	- Can be unreliable
Microfinance	Very small loans which are given to people in the LICs to help	+ Makes women more equal
loans	them start a small business. Often to women.	- Can lead to debt
Investment	Countries or TNCs can invest in a country. Might include the	+ Triggers multiplier effect
ilivestillelit	development of infrastructure, building dams or industry. Shell.	- Economic leakage can occur
	36/39 of the poorest countries have had their debt cancelled if	+ Improves quality of life
Debt relief	they could guarantee no corruption and they agreed to spend the	- They may go into debt again
	money on education/ reducing poverty. Nigeria's cancelled 2005.	- Corrupt governments
Intermediate	Sustainable technology that is appropriate to the needs, skills,	+ Affordable
technology	knowledge and wealth of local people. Small scale projects.	- Small scale
Industrial	Developing the secondary sector. This brings jobs, higher income	+ Triggers multiplier effect
development	ment and infrastructure improvements Environmental damage	

7. Tourism to reduce uneven development		
	LIC. GNI per capital of US\$1,090.	
Nepal	Suffered civil war and earthquakes.	
	Trek (Mount Everest), jungles, culture.	
	+ \$445 million in 2015.	
Advantages	+ 8% GNI.	
	+ 500,000 jobs. 7% employment.	
	- Locals are poorly paid.	
Dis-	- Economic leakage.	
advantages	- EQ in 2015 reduced tourism by 1/3.	
aaramagaa	Some out of work for 7 months.	
	- Environmental damage (je O2 tanks).	
	Has been successful but it is unreliable.	
Summary	Need to find a more sustainable	
	method for the long run.	

6. Strategies to reduce uneven development FAT MIDII		
Strategy	Explanation	Evaluation
Fairtrade		-
Aid		-
Tourism		-
Microfinance		-
loans		
Investment		-
Debt relief		-
Intermediate		-
technology		
Industrial		-
development		

	7. Tourism to reduce uneven development	
Nepal		
Advantages		
Dis- advantages		
Summary		

Balboa the Conquistador

1509

Balboa rescues Spanish expedition in trouble on mainland America. Founds first permanent settlement on mainland

1510

America, Santa Maria de la Antigua del Darien. 1511 Confirmed, by King Ferdinand, as captain general

and governor of Darien.

Expedition across Isthmus of Panama - finds the Pacific and claims it and surrounding lands for Spain. 1514

Plans an expedition to sail south on the Pacific. Replaced as governor by Pedrarias. Arrested for treason, tried and beheaded.

Pedrarias and Espinosa: the significance of **Panama**

Pedrarias and Espinosa explored the south coast separately, but both ended up on the same point on the Pacific coast - this became Panama. Panama significant because: -Situated on Pacific coast - closest in distance to

- Nombre de Dios on the Caribbean Sea. -a route between Panama and Nombre de Dios was the quickest way of moving goods, people and
- messages between the Pacific and the Caribbean -land surrounding Panama was fertile and had sea
- -Panama was a port, well situated for Spanish treasure ships to off-load.

Velázquez conquers Cuba

1515 - City of Havana founded.

1511 – Hatuey a native chief living in Haiti, flees to Cuba with 400 natives to escape Spanish cruelty. Velázquez and 300

conquistadors pursue

them.

1513 - Massacre at

Canao - thousands of

natives killed.

strong native resistance, Hatuey is captured and burned alive.

1512 - After

1514 - Conquest of Cuba complete. City of Santiago de Cuba founded and becomes capital of Cuba.

2. The Conquistadors 1513-1528



Cortes' expedition to Mexico 1519

March – Lands on

Yucatan Peninsula

1519 February -Cortes sails from

Cuba, despite Velázquez attempts to stop him.

July - Re-establishes

a Spanish settlement

at Vera Cruz. Cortes

also sinks his ships.

and claims land for Spain.

and allies with

them.

August - Cortes is met by cheering natives at Cempoala

September - Fights Tlaxcalans - enemies of the Aztecs – makes peace and allies with them.

April - Fights Tabascan

natives and takes control

of the city of

Pontonchon. Makes

peace with Tabascans.

Given Malinche.

Aztec religion



Quetzalcoatl

What beliefs did the Aztecs have towards the Spanish?

Some Aztecs wanted to treat Cortes and the Conquistadors as

returning gods; others as dangerous invaders. Aztecs worshipped many gods. They were usually connected to nature. Human sacrifices were common among the Aztecs. The god Quetzalcoatl was the god of life. Aztecs believed he had vanished into the sea and would one day return.

Many Aztecs believed that Cortes and the conquistadors were returning gods.

Cortes and the conquistadors appeared from the same sea, and in

the same spot, from which Aztecs believed Quetzalcoatl disappeared.

Magellan

Magellan and his ships managed to circumnavigate the world between 1519 and 1522 and claim the Phillipines for Spain.

This was important because:

- It meant that Spain could claim the Spice Islands - as they had found a western route to it.
- It brought prestige to Spain -Magellan and his ships were the first to complete a voyage of global circumnavigation.

Cortes removed as governor

Cortes had many enemies which were causing him problems back in Spain. In 1528 he was removed as governor because:

- Velázquez became a determined enemy.
- Rumours of greed reached the Spanish court.
- The king wanted to control Cortes.

In 1528 Cortes returns to Spain. Charles I was impressed with what Cortes had found but did not trust him. Cortes was no longer governor but he kept his land. An enemy of Cortes was installed so they could keep an eye on both, and to prevent one gaining too much power.

April Fights Tabascan natives and takes control of Pontonchon. Makes peace with Tabascans. Given Mayan woman, Malinche.

Feb Cortes sails from Cuba

Date Event

1519

July Re-establishes Spanish settlement at Vera Cruz. Sinks his ships. August Met by cheering natives at Cempoala and allies with them.

March Lands on Yucatan peninsula and claims land for Spain

Sept Fights Tlaxcalans – enemies of the Aztecs – makes peace and allies with them. October Cortes and his forces massacre 3000 natives in the town of Cholula.

14th Nov Montezuma taken prisoner by Cortes – becomes a puppet emperor. 1520 April Spanish troops arrive at Vera Cruz under instructions from Velázquez,

8th Nov Cortes and his forces enter Tenochtitlan – welcomed by Montezuma.

intending to arrest Cortes. May Cortes leaves Tenochtitlan to oppose Velázquez's troops. Cortes deputy, Alvarado, massacres thousands of Aztec nobles.

24-29 June Spaniards trapped in Tenochtitlan as Aztecs rise against them. 29th June Montezuma killed.

30th June The Night of Tears: Spaniards are massacred as they flee from Tenochtitlan and spend nearly a year re-grouping and planning.

1521 22nd May Battle for Tenochtitlan begins.

1st Aug Spaniards fight their way into the centre of Tenochtitlan.

13th Aug Tenochtitlan falls to the Spaniards and the Aztecs surrender.

Cortes strengthens Spanish control

- In the years to 1528. Cortes strengthened control in many ways: -He continued killing Aztecs and natives that supported them.
- -He took tribute from remaining Aztec chiefs.
- -Tenochtitlan was rebuilt on the ruins of the Aztec city.
- -He encourages exploration and establishment of new communities.
- -Agriculture was developed.
- -Industry was developed.
- -He helped with the spread of Christianity.

priests pulled killed down

Aztec

The Spanish impose the encomienda system of landholding

the Aztec **Empire**

Aztec leaders The fall of killed and Aztecs ruled by **Spaniards**

Temples

Millions of Aztecs die from smallpox

Christian priests and friars convert Aztecs to Christianity

Forced labour kills millions of Aztecs



Year 10 GCSE Religious Education KO - Islam Beliefs



Keywords		What we are learning in this unit		A.	6 Articles of Faith		
Tawhid	The belief in Islam that there is only one God who	A. 6 Articles of Faith B. 5 Roots of Usul Ad-Din		Article of fa	ith	What is it?	
	created everything	C. Sunnah a D. Risalah	and Hadith		1: Belief in	one God	Allah is the creator and sustainer of life. There is no God but Allah
Omnipotent	God is all powerful and "has power over everything"	 E. Torah, Psalms and Gospels F. Nature of Allah G. Qu'ran H. Torah, Psalms and Gospels I. Angels J. Al Qadir K. Day of Judgement, Paradise and Hell 			2: Belief in Angels		Angels do the work of Allah and do not have free will like humans. They obey Allah
Immanent	God is active in the world and involved in its' creation.				3: Belief in God's revealed books		The Torah, the Psalms, the Gospels, the Scrolls of Abraham and the Qur'an.
Transcendent	Transcendent God is outside of time and space. God cannot age or die or be located in one		B. 5 Roots of Usul Ad-Din The 5 roots of Usul ad-Din are central to the Shi'a Muslim faith.			the messengers of God	Prophets and messengers are chosen by Allah to deliver His message to humankind
	place.	Root	What is it?	Quote	5: Belief in	the Day of Judgement	There will be a day when all people stand in front of Allah and are sent to Heaven or Hell
Beneficent	Allah is compassionate, caring and good	1: Tawhid	The belief in the oneness of Allah	"He is God the One, God the eternal" Surah	6: Belief in	pre-destination	Allah knows everything. Everything is ordered by Allah –
Sunnah	The traditions and practices of the Prophet				nothing is random or by char		nothing is random or by chance
	Muhammad	2: Risalah Belief in		"We sent	C. Sunnah and Hadith		
Qur'an	The Islamic sacred book		prophethood: the chain of messengers	every community" Surah 16			
Hadith	A collection of traditions and sayings of the Prophet Muhammad		from Adam to Muhammad		Sunnah	 The practices, customs and traditions of Prophet Muhammad They give an example for Muslims to follow The Sunnah and Hadith are sources of Wisdom and authority alongside the Qur'an 	
		3: Adalat	Allah is just (fair) and will bring Divine	"I advise you to being just towards both friend and foe" Imam Ali			
6 Articles of Faith	6 basic beliefs that shape the Islamic way of life		Justice				
5 Roots of Usul	5 rules which explain how				Hadith	Reading the Hadith helps a Muslim to learn how Muhammad explained the teachings	
Ad-Din	Muslims should act in daily life	4: Imamah A term for God-given leadership		"obey God and the Messenger, and those in		from the Qur'an The Hadith makes the Qur'an easier to	
Akhirah	Belief in the afterlife			authority among		understand	
Al Qadr	Supremacy of God's will and The belief in predestination which is slightly different for Sunni and Shi'a Muslims	5: Mi'ad	The day of judgement and resurrection	"His is the judgement; and to Hjm you shall be returned"	What does the Sunnah tell Muslims?	It provides a guideline for Muslim I	



Year 10 GCSE Religious Education KO - Islam Beliefs



Keywords		What we are learning in this unit			A.	6 Articles of Faith	
Tawhid		A. 6 Articles of FaithB. 5 Roots of Usul Ad-DinC. Sunnah and HadithD. Risalah			Article of fait	h	What is it?
Omnipotent		E. Muhamm F. Nature of G. Qu'ran H. Torah, Ps			2:		
Immanent		Angels J. Al Qadir K. Day of Judgement, Paradise and Hell			3: 4:		
Transcendent		B. 5 Root	ts of Usul Ad-Din		7.		
		Root	What is it?	Quote	5:		
Beneficient		1:			6:		
Sunnah		2:			C.	Sunnah and Hadith	
Qur'an							
Hadith		3:					
6 Articles of Faith							
5 Roots of Usul Ad-Din		4:					
Akhirah							
Al Qadr		5:					



Year 10 GCSE Religious Education KO - Islam Beliefs



D.	Risalah (Prophethood	()	E	Torah, Psalms and Gospels			
What is it	 Muslims believe there has been 124,000 prophets Every Islamic prophet preached Islam and key beliefs The first was Adam, the last was Muhammad (Box E) 		Psalms (Zabur)	The Psalms of Dawud are a collection of prayers to Allah They contain lessons of guidance for the people			
Why are prophets important?	Their love of AllSome prophets	Prophets are guided by Allah Their love of Allah stops them from sinning Some prophets are messengers who have been given revelation of news		 This is the good news about Isa (Jesus) Muslims highly respect Isa because there are revelations in the Qur'an about him Muslims believe he was the Masih, he was not the son of Allah, he was not crucified, he did not die to save sins The gospels contain some mistakes because they were written many years after Isa died 			
	The father of all He taught about He taught life or life		Torah (Tawrat)	 The Tawrat is the Arabic word for the Torah These are the revelations given to Moses by Allah on Mt Sinai The Qur'an refers to the Tawrat as "guidance and light" 			
Ibrahim	– remembered a	d in a dream to sacrifice Isma'il as a test of faith at Hajj every year is the ancestor of the prophet Muhammad	Scrolls of Ibrahim	 Revelations received by Ibrahim on the first day of Ramadan Contained stories about workship and reflection Not a book, individual revelations 			
F. The Nature of Allah							
Tawhid		 There is only one God and this God has no equal. He created everything. Only He should be worshipped: worshipping other Gods is a sin called shirk. "There is no God but Allah, and Muhammad is his messenger". "Allah witnesses that there is no deity except Him" "Do they not see that Allah, who created the heavens and the Earth and was not wearied by their creation, has the power to raise the dead to life?" 					
2: Omnipotent		Allah is all powerful and has power over everything					
3: Immanence		Allah is active in the world and able to control events					
4: Transcendent		Allah is outside of the universe Not limited by time or space					
5: Beneficience		God has love and good will					
6: Mercy		 "In the name of Allah, the most compassionate, the most merciful" God is forgiving and caring 					
7: Fairness and justice		Allah is fair to all people					

Allah has sent the same message to all prophets to allow humans numerous opportunities to submit to the will of Allah

• Allah will ensure that judgement is fair and punishments are suitable





D.	Risalah (Prophethood)	Е	Torah, Psalms and Gospels
What is it			Psalms (Zabur)	
Why are prophets important?			Gospel (Injil)	
Adam				
			Torah (Tawrat)	
Ibrahim			Scrolls of Ibrahim	
	F.	The Nature of Allah		
Tawhid				
2: Omnipotent				
3: Immanence				
4: Transcendent				
5: Beneficience		-		
6: Mercy				
7: Fairness and justice				





G.	Qur'an	l.	Angels		
Revelation	Chapters of the Qur'an were revealed to Prophet Muhammad over 13 years in Makkah While Muhammad received the revelations, he was not able to change them because it was the will of Allah	What are they?	 They have no gender and ar 	and have wings which can move at the speed of light e in the unseen world Allah asks and they always obey Allah as they have no free will	
	After Muhammad received them, he recited them, and somebody wrote them down.	What do they do?	Watch over humans Bring peace to believers and instill fear in non-believers Angel of Death takes the soul at death Greet people entering paradise or throw people into the pits of hell Signify the end of the world by blowing a horn Most important angel in Islam Always brings good news Helped Ibrahim when he was thrown in to a fire, opened up the Zamzam well for Hajar Told Maryam she would have a son (Isa) Dictated the Qur'an directly from Allah		
Authority	 It is the direct word of Allah so it has His authrotiy It is without error and remains in its' original form A written book was needed to formalise the religion 				
What does it contain?	It covered every aspect of life It influences a person throughout their lives The basics of worship which Muhammad developed Shari'ah law and social systems	Jibril			
Supreme authority			Helped Muhammad to fightWill help to weigh peoples'	e – in charge of plants and rain for Makkah	
K.	Day of Judgement, paradise and Hell		J. Al Qadir		
11011111111111	on a Friday)		 Everything happens as a result of Allah's will and nothing is ever random or without reason Allah is in charge of everything Everything is a part of Allah's plan "never will we be struck except by what Allah has decreed for us" 		
	Humans will go to paradise or Hell		E.	Muhammad	
Jannah	Paradise No growing ill, old or dying – it is a reward and gift from Allah A person must live religiously and ask Allah for forgiveness Good beliefs and actions It is beyond human imagination		Why was he chosen?	Muhammad had characteristics such as responsibility, determination, patience, courage and honesty He was highly respected in his community He was extremely devoted to Allah – he prayed and fasted for long periods of time	
Entry to Jannah	"enter among my servants! Enter my paradise!" People will arrive over the As-Sirat bridge There are 8 gates and you go through the one which represents your best action Two angels welcome people saying "peace be upon you"		What did he do as a prophet?	He became the ruler of Madinah and set up the first Islamic community He converted the people of Makkah to Islam	
am	Two angels welcome people saying "peace be upon you" Hell People wail in misery, 70x hotter than any flame on earth, boiling water poured on their heads, pain, dragged in chains Punishment for a life full of evil or rejecting the teachings of the Qur'an		Why is Muhammad important?	He is seen as the perfect role model as he is trustworthy and obedient to Allah His influence can still be seen in the Hadith and Sunnah The night of power in Ramadan is to remember Muhammad's first revelation from the angel Jibril	





G.	Qur'an	l.	Angels		
Revelation		What are they?			
		What do they do?			
Authority					
What does it contain?		Jibril			
		Mika'il			
Supreme authority					
K.	Day of Judgement, paradise and Hell		J.	Al Qadir	
What will happen ?					
				E.	Muhammad
Jannah			Why w	as he chosen?	
Entry to Jannah			What o	did he do as a et?	
Jahann am			Why is importa	Muhammad ant?	





Keywords		What we a	re learning in this unit	В.	The 5 Pillars - Salah
Tawalla	Showing love for God and		B. Salah C. Sawm D. Zakah		
	for those who follow Him	C. Sawm D. Zakah			 "Salah is a prescribed duty that has to be performed at the given time by the Qur'an"
Tabarra	Disassociation with God's enemies	E. Hajj F. Jihad			 Muslims pray 5 times per day and this allows them to communicate with Allah. The prayers are done at dawn (fajr), afternoon
Khums	The obligation to pay one- fifth of acquired wealth		G. Id-ul-Adha H. Id-ul-Fitr		(zuhr), late afternoon (asr), dusk (maghrib) and night (isha)
Lesser jihad	The physical struggle or holy war in defence of	A.	5 Pillars of Islam and 10 obligatory acts		Muslims face the holy city of Makkah when paying.
	Islam	What are the 5	 5 key practices or duties for Muslims Both Sunni and Shi'a keep these (Shi'a have them 	Wuzu	The washing process to purify the mind and body for prayer
Greater jihad	The daily struggle and inner spiritual striving to live as a Muslim	pillars	· · · · · · · · · · · · · · · · · · ·		Muhammad said the key to Salah is cleanliness Hands, arms, nose, mouth, head, neck and ears are cleaned as well as both feet up to the ankle.
Sunni	Muslims who believe in the successorship of Abu Bakr, Umar, Uthman and Ali as leaders after the Prophet Muhammad	What are the 10 obligatory acts	 There are 10 obligations for a Muslim according to the Shi'a branch of Islam. These include prayer, fasting, almsgiving, pilgrimage, jihad, khums, directing others towards good, forbidding evil, tawalla and 	Rak'ahs and recitations	 These are the movements that Muslims make during prayer Takbir – raise hands to ears and say 'Allahu Akbar' Qiyam – Standing, Muslims recite Surah Then bow to the waist saying "Glory be to my Great Lord and praise be to Him"
Shi'a	Muslims who believe in the Imamah, leadership of Ali	Shahadah	Shahadah Shahadah is the first of the 5 pillars It is the Muslim declaration of faith "there is no God but Allah, and Muhammad is His messenger" This is a statement that Muslims reject anything but Allah as their focus of belief It also recognises that Muhammad has an important role and his life is an example to follow		Then sink to their knees saying "Glory be to my Lord, The Most Supreme".
Niyyah	and his descendants Intention during prayer - having the right intention to worship God	- Chanadan		Salah at home	 Salah is a big part of family life Meals and other activities are usually scheduled to fit around prayer times Families pray all together and might have a room set aside for prayer
Du'a	A personal prayer that is done in addition to Salah e.g. asking Allah for help			Salah in the mosque	All mosques have a qiblah wall which is to show where to face Makkah Men and women pray in separate rooms at the
Jihad				Jummah	Mosque Jummah is congregational prayer held on a Friday
oppressed by "Fight in the v Conditions for sel pro leg		hen Prophet Muhammad and early Muslims were being attacked and the Meccans and had no choice but to engage way of God those who fight against you but do not transgress" of declaration lf-defense opportionate gitimate authority		Guillian	 at the mosque where the imam leads the prayer Praying together as a community develops the feeling of unity amongst Muslims Men are obliged to attend unless they are sick or too old Women do not have to go – they may pray at home instead
Greater Jihad • A struggle w • e.g. perform		thin oneself to fol the Five Pillars, fo	low the teachings of Islam and be a better person Illow Sunnah and avoid temptation forbid what is wrong"	Differences between Sunni and Shi'a	 Shi;a Muslims combine some prayers so they may only pray 3x a day Shi'a use natural elements e.g. clay where their head rests





	Keywords		What we are learning in this unit		В.	The 5 Pillars - Salah	
Tawalla		A. The 5 Pillars and 10 Obligatory Acts B. Salah C. Sawm		What is it?			
Tak	oarra			D. Zakah E. Hajj F. Jihad			
Khı	ums			G. Id-ul-Ad H. Id-ul-Fi	dha tr		
Les	sser jihad			A.	5 Pillars of Islam and 10 obligatory acts		
Cro	eater jihad			What are the 5		Wuzu	
GIE	ater jiriau			pillars			
Sunni		What are the 10 obligatory acts		Rak'ahs and recitations			
Shi	'a			Shahadah			
	yah			Silaliauali		Salah at home	
Du'	a					Salah in the mosque	
Jihad				Jummah			
Lesser Jihad							
Greater Jihad				Differences between Sunni and Shi'a			





	The 5 Pillars - Zakah		The 5 Pillars - Sawm
The role of giving alms	Muslims believe it is their duty to ensure Allah's wealth has been distributed equally as everyone is the same The Qur'an commands to give to those in need	The role of fasting	 Fasting during Ramadan (9th month in Muslim calendar) Muslims give up food, drink, smoking and sexual activity in daylight hours Pregnant people, children under 12, travellers and elderly people are exempt from fasting.
The significance of giving alms	 Giving 2.5% of savings/wealth to charity Wealth can cause greed which is evil, so Zakah purifies wealth – wealth is given by God and must be shared The Prophet Muhammad practiced Zakah as a practice in 	The significance of fasting	Ramadan is believed to be the month that Prophet Muhammad began to receive revelations of the Qur'an Helps Muslims to become spiritually stronger
Khuma	Medina Given to the poor, needy and travellers Sadaqah is giving from the heart out of generosity and compassion Shi's black and shi to the 10 obligators and the 10 obligators.	Reasons for fasting	 Obeying God and exercising self-discipline Develops empathy for the poor Appreciation of God's gifts Giving thanks for the Qur'an Sharing fellowship and community with other Muslims
Khums	 Shi'a Islam – one of the 10 obligatory acts 20% of any profit earned by Shi'a Muslims paid as a tax Split between charities that support Islamic education and anyone who is in need "know that whatever of a thing you acquire, a fifth of it is for Allah, for the Messenger, for the near relative, and the orphans, the needy, and the wayfarer" 	Night of power	 The night when the Angel Jibril first appeared to Muhammad and began revealing the Qur'an. The most important event in history – "better than a thousand months" (Surah 97:3) Laylat Al-Qadr is the holiest night of the year. Muslims try to stay awake for the whole night to pray and study for the Qur'an
	The 5 Pillars - Hajj		ld-ul-Adha, ld-ul-Fitr, Ashura
The role of pilgrimage The significance of pilgrimage	 A pilgrimage to Makkah which is compulsory for Muslims to take at least once as long as they can afford it and are healthy God told Ibrahim to take his wife and son on a journey and leave them without food or water 	Id-ul-Adha Not an official holiday in UK	 Festival of sacrifice Marks the end of Hajj and is a chance for whole Ummah to celebrate Origins – Ibrahim's commitment to God in being willing to sacrifice his son, Ishmael. God was testing Ibrahim Key events – new clothes, sacrificing an animal, visiting the Mosque. People ask a butcher to slaughter a sheep for them and share the meat with
	 Hajira ran up and down two hills in search of water, could not find any and prayed to God. Then water sprung from the ground. This is the Zamzam well When Ibrahim returned he was commanded to build the Ka'ba as a shrine dedicated to Allah Hajj is performed in the month of Dhu'l-Hijja 	Id-ul-Fitr Public holiday in Muslim majority countries, not UK	 Festival of fast-breaking Marks the end of Ramadan Key events – Decorate homes with colourful light and banners, dress in new clothes, gather in Mosques, give gifts and money, give to the poor Zakah ul-Fitr – donation to the poor so that everyone can eat a generous meal at the end of Ramadan.
Actions	 Ihram – dressing in two pieces of white cloth Circling the Ka'aba 7 times (tawaf) Drinking water from the Zamzam well like Hajar walking between Al-Safa and Al-Marwa hills seven times Throwing stones at 3 pillars (jamarat) to represent casting out the devil and remembering Ibrahim throwing stones at the devil to drive him away Asking Allah for forgiveness at Mt Arafat Collecting pebbles at Muzdalifah 	Ashura	 Sunni celebration – many fast on this day which was established by Prophet Muhammad Shi'a mourning – Husayn was murdered and beheaded. Muslims remember his death and betrayal Key events – public displays of grief, day of sorrow, wear black, reenactments of martyrdom, not a public holiday in Britain but Muslims may have day off school





	The 5 Pillars - Zakah		The 5 Pillars - Sawm
The role of giving alms		The role of fasting	
The significance of giving alms		The significance of fasting	
		Reasons for fasting	
Khums		Night of power	
	The 5 Pillars - Hajj		Id-ul-Adha, Id-ul-Fitr, Ashura
The role of pilgrimage		Id-ul-Adha Not an official holiday in UK	
The significance of pilgrimage			
		ld-ul-Fitr Public holiday in Muslim majority countries, not UK	
Actions		Ashura	



В. C.

D.

E.

2.

3.

GCSE unit 1 SPANISH Knowledge organiser. Topic Me my family and friends

What we are learning this term: 1.1F Hablando de los amigos

a menudo often

alegrarse de to be happy about comprensivo/a understanding

conocer to know a person el consejo advice thing

to look after argument

la discusión good fun

divertido/a egoísta selfish el equipo

5. Por otro lado 6. Vov a... escribir to write fastidiar

reírse

orgulloso/a

4. El año próximo

1.1G ¿Cómo es tu familia?

1.1G ¿Cómo es tu familia?

El/la abuelo/a grandfather/grandmother

grandparents

Talking about your family

Describing relationships

Describing future plans

Translation practice

6 Key Words for this term

Me llevo bien

No soporto

discuto

Describing your family and friends

Explaining family relationships

los abuelos

alegre happy alto/a tall

amable kind old anciano/a

la barba beard calvo/a bald cariñoso/a almost

affectionate, tender casi nearly, castaño/a brown hair colour corto/a short

delgado/a thin las gafas glasses gracioso/a funnv guapo/a good looking, handsome

El/la hermano/a brother/sister El/la hijo/a son/daughter ioven young largo/a long straight

liso/a la madrastra stepmother los ojos eves el padrastro stepfather las pecas freckles red-haired pelirrojo/a

el pelo hair rizado/a curly la tía aunt uncle

el tío viejo/a old sensible sensitive la cosa cuidar

team

to annoy, to bother fuerte strong hablador/a talkative

honrado/a honest maduro/a mature mismo/a same peligroso/a dangerous

to laugh certain, sure seguro/a el sentido del humor sense of humour travieso/a naughty

triste sad el verano summer la vida life

1.1H Relaciones con la familia abierto/a open aconseiar to advise

actualmente nowadays to bear, to put up with

aguantar arreglar to tidy la barrera generacional generation gap affection el cariño celoso/a iealous la culpa blame, fault los demás others harto/a fed up home el hogar hov en día nowadavs incluso even injustamente unfairly iuntos together la libertad freedom manera way molestar to bother oir hablar de to hear about olvidar to forget

proud

I get on Te llevas You (s) get on

Llevarse

Me Ilevo

Se Ileva

He/se gets on

Nos Ilevamos

They get on

They get on

Se llevan

parecido/a

perezoso/a

el sobrino / la sobrina

la pelea

provocar

tender a

todavía

tratar

triste

el beso

cocinar

comprar

feliz

la gente

el marido

la mujer

la novia

el novio

parecer

la pareja

pelear(se)

el piso

serio/a

sonreír

los parientes

cada vez más

echar de menos

enamorado/a

los familiares

el invitado/a

maleducado/a

el matrimonio

to get on

Va s/he goes Vamos

They go

similar

to cause

to tend to

to treat

fight

lazv

still

sad

1.2G Hablando de parejas

kiss

to cook

to buy

in love

happy

people

guest

husband

marriage

to seem

partner

to fight

to smile

relatives

wife, woman

girlfriend, fiancée

boyfriend, fiancé

flat, apartment

serious, responsible

rude

relatives

more and more

to miss someone

To go

Voy

I go

Vas

You go

Soportamos W can stand They go Van Soportan

nephew, niece

They can stand 1.1H Relaciones con la familia

así que

la boda

buscar

cambiar

casarse

encontrar

la fiesta

por eso

próximo/a

la felicidad

el casamiento

el compañero/a

decepcionado/a

Key Verbs

Soportar

To stand

Soporto

I can stand

Soportas

Soporta

You can stand

He/she can stand

They do 1.2F Planes para el futuro so, therefore wedding

Hacer -

Hago

Haces

You do

Hace

s/he does

Hacemos

We do

Hacen

I do

to do/make

to change weddina to get married colleague, friend disappointed

Discutir -

to argue

Discuto

I argue

Discutes

Discute

Discutios

We argue

Discuten

to look for

to find

happiness

therefore

alone, only

next

place

single

party, festival

They argue

You argue

He/she argues

el sitio solo/a soltero/a

la pareja

por otro lado

la piel

tener suerte to be lucky holidays las vacaciones ya no no longer

1.2H Las relaciones de hoy en día

ahora now alguien someone cara a cara face to face distinto/a different en contra against en primer lugar in the first place, la edad age estar de acuerdo to agree el/la jubilado/a retired person. pagar to pay

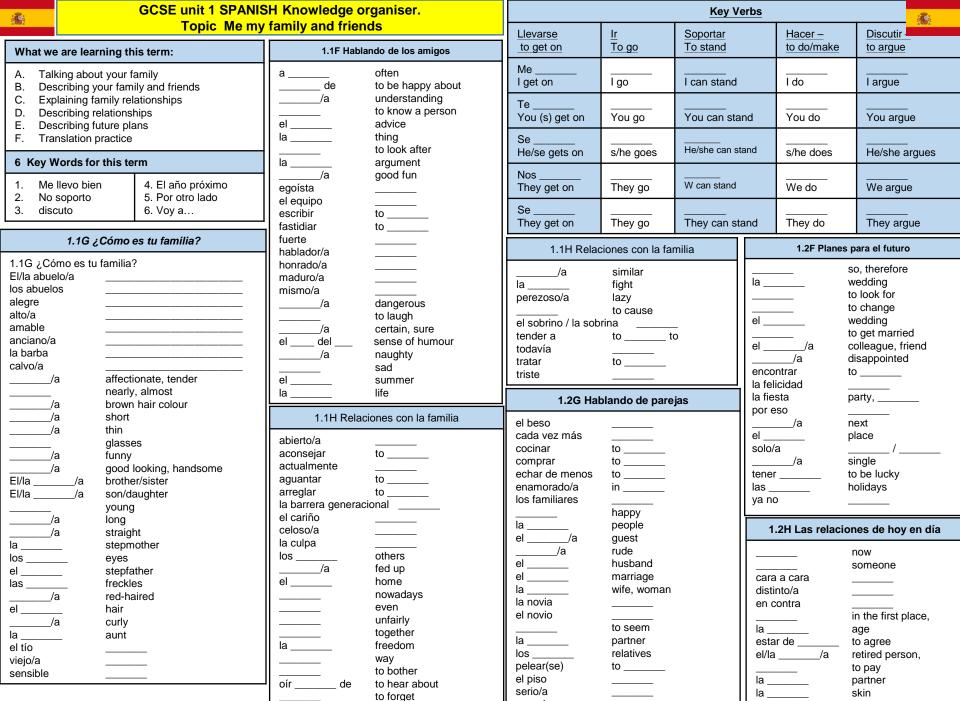
partner

on the other hand

skin

2002		
Translation Practice. G -	blue F – orange H - Green	
Mi a es	My grandfather is	اخ es
а у	Happy and Kind	ре
Tiene losverdes	He has green eyes) <u>;</u> 9q 1:
·	He has Curly hair	اخ ک tu
la de mis sueños	The wife of my dreams	ن آخ آخ
Quiero un guapo	I want a pretty boyfriend	
Mis padres me dan buenos	My parents give me good advice	اخ]خ
Es importantea otros	It's important to look after others)ن er
Se debe a los niños	It's necessary to advise kids	
Mi hermano es 	My brother is understanding)خ re
Es bueno a otra gente	It's good to know other people	
Tener una me importa	Having a partner is important)خ im
me interesa	Getting married interests me	
Mis padres me dan mucho	My parents give me lots of affection	Fo
No soy nunca	I'm never jealous	th fir
Estoy/a de los deberes	I'm fed up of homework	Fo
encontrar	To find a partner	('v
Fue una buena	It was a good party	Us
No quiero ser	I don't want to be single	te

Key Questions: Answer the following in your own words. Use these model answers			
¿Puedes describir te? ¿Cómo es tu aspecto físico, tu personalidad?	Soy bastante alto y delgado. Tengo los ojos azules y el pelo marrón y liso. Mis padres me describen como una persona cariñosa, comprensiva, sensible, honesta y un poco vaga.		
¿Cómo sería un novio perfecto/una novia perfecta? ¿Por qué?	Mi novia perfecta sería muy guapa y honesta y tendría el pelo rubio, corto y rizado. Todos los días seria sensible y no sería nunca perezosa o torpe.		
¿Quiénes son los miembros o tu familia?	Somos cinco en mi familia. Vivo con mis padres que se llaman Tengo un hermano menor que se llama y tengo una hermana mayor que tiene años		
¿Te llevas bien con tu familia ¿Por qué?	Me llevo bien con mi hermano porque es cariñoso y siempre comprensivo. No me llevo bien con mi hermana porque nos peleamos mucho y mi hermana se enfada conmigo.		
¿Hay discusiones en tu famili ¿De qué se discute?	Sí, hay discusiones en mi familia. Hay tensión en la casa de vez en cuando. No estoy de acuerdo con los consejos de mis padres. También hay discusiones porque mi hermana pone su música demasiado fuerte		
¿Quieres casarte y tener niño en el futuro? ¿Por qué?	Si, en el futuro me gustaría casarme con un hombre/mujer (man/woman) honesto y sensible. Quiero casarme porque el matrimonio es muy importante para mi y quiero una boda perfecta en una iglesia. Quiero tener dos niños, una chica y un chico. Voy a tener niños después de haber ido a la universidad		
¿Qué has hecho recientemente con tu familia?	Recientemente, fui al centro de la ciudad con mi familia. Fuimos juntos en coche y fuimos para comprar unos regalos para el cumpleaños de mi abuelo. Después comimos en un restaurante, yo comí un bocadillo de pollo, mi hermana comió una ensalada. Me gustó mucho porque fue muy divertido y la comida fue muy deliciosa.		
¿Crees que el matrimonio es importante para ti? ¿Por qué?	Quiero casarme porque el matrimonio es muy importante para mí y quiero una boda perfecta en una iglesia. Aunque las bodas son muy caras, tener una boda es mi ambición.		
	Key Grammar		
Forming the preterite (past tense). Always remove the –AR, -ER, -IR endings first	Remember the preterite (past) tense endings for –AR, -ER, -IR verbs. They are: -AR: -é, -aste,-ó, -amos, -astéis, -aron -ER: -í, -íste, -ió, -imos, -istéis, - ieron -IR: -í, -iste, -ió, -imos, -istéis, - ieron		
Forming the conditional ('would like to' tense). Always remove the –AR, -ER, -IR endings first	Remember the conditional ('would') tense endings for –AR, -ER, -IR verbs. They are: -AR, -ER, -IR: -ía, -ías, -ía, -íamos, -íais, -ían		
Using the immediate future tense IR + A + INFINITIVE	Voy a casarme = I'm going to get married Va a discutir con su padre = He / She is going to argue with his/her father		



sonreír

_/a

proud

to _____

on the other hand

39. Stakeholder

Stakeholders are the people or groups with an interest in the success or failure of an organisation.

Types of stakeholders & their typical objectives:

Business owners & shareholders

Interested in the business being successful and making a profit.

Staff/managers

Interested in having job security, career development, fair wages etc.

Customers

Interested in getting an honest and fair deal from a business.

Local Community

Interested in honest and fair dealing/co-operation with the organisation with regards to local employment and environment.

Local Government

Interested in employment plans, location plans and business ability to pay tax.

Pressure Groups

Interested in fair and ethically correct business practices.

42. Retail Legislation

Legislation	Law's passed by acts of parliament. Too many rules that impact on a business from operating as the owner would like are known as "Red Tape".
Consumer Rights Act 2015	 Goods must be fit for purpose and free from defects. The buyer has the right to get their money back or have their product repaired at the seller's expense. Any issues are to be dealt with by the seller and not the manufacturer.
Trade Descriptions Act	 Trader's can not use false or misleading statements. Labels must not be misleading.
Other acts of legislation:	Consumer credit act 1974, The weights and measures act 1985, The food safety act 1990.

43. Recruitment Legislation

Employees are protected from being exploited in the work place.

gards to
nate <u>in</u>

40. Types of technology used in business

Technology is used in different aspects of business:

E-commerce: Allows businesses to sell their products online and reach a wider audience of potential customers with lower costs.

Social Media: Allows a business to communicate and interact directly with customers.

Digital Communication: E-mail allows customers to contact a business personally and directly.

Payment Systems: Online payment systems (eg. Paypal) allow all types of businesses to access their payments fast and easily.

41. How does technology influence business activity?

Sales can increase as a result of e-commerce because customers can access products or services 24 hours a day, 7 days a week. New technology drives innovation to create new products or services and this can increase sales of new products.

Costs can be reduced through advertising online through websites, e-mail newsletters, and via social media. Costs can also be reduced through manufacturing efficiency and being able to find the best deal on raw materials online.

The 4 P's are affected by different types of technology.

Product = New technologically advanced product or a new method of production.

Promotion = Digital marketing can improve the effectiveness of marketing and is cheap.

Place = Products can be sold online and can be accessed by customers worldwide.

44. The Economy

The economy is the collection of business transactions that take place throughout the country, throughout the year.

	tilloughout	he country, throughout the year.			
	Interest	The amount that a lender charges per year to someone who has			
	rates.	borrowed money. This is measured as a percentage.			
	Exchange The value of the pound (£) measured by how much foreign c				
	rates	can be bought per pound (£).			
Recession A downturn in sales and output throughout the economy, ofte					
		leading to rising unemployment.			
Inflation The rate in which prices are rising from the same time last					

39. Stakeholder	40. Types of technology used in business
Stakeholders are the people or groups with an interest in the success o	
failure of an organisation.	Technology is used in different aspects of business:
Types of stakeholders & their typical objectives:	realinology is used in different aspects of susmess.
Types of stationals a titel typical oxystation	
	E-commerce:
	Social Media:
	Digital Communication:
	Payment Systems:
	41. How does technology influence business activity?
42 Patail Lagislation	
42. Retail Legislation	
Legislation	
Consumer Rights	
Act 2015	
	44. The Economy
Trade	The economy is the collection of business transactions that take place
Descriptions Act	throughout the country, throughout the year.
Descriptions Act	Interest
Other acts of	rates.
legislation:	Exchange
regisiation.	rates
	Recession
	ICCC33IOII
42. Be and the seal of the time	Inflation
43. Recruitment Legislation	
Employees are protected from being exploited in the work place.	
Equality	
Act 2010	

Equal Pay Act 1970

45. Changes in interest rates

Interest rates change depending on how confident a lender is on the state of the economy. If the economy is strong the % rates are low, if the economy is weak then % rates are high.

Effects of lower interest rates:

Increased customer spending:

Customers are happy to spend money more confidently because they will pay less in interest and are more likely to have an excess in disposable income.

More favourable borrowing:

Businesses can borrow money from lenders at a lower rate of interest.

Effects of higher interest rates:

Reduced customer spending:

Customers are unlikely to spend money confidently because they will pay more in interest on loans and mortgages. Customers are more likely to have a lack of disposable income.

Less favourable borrowing:

Businesses will be charged higher interest rates on any money they have borrowed.

46. Changes in exchange rates

Exchange rates change depend on the supply and demand for different currencies. This is based on how well a country's economy is performing.

Effects of a strong pound (£):

Imported goods become cheaper to buy, Products being exported become more expensive abroad.

Effects of a weak pound (£):

Imported goods become more expensive to buy, products being exported become cheaper abroad.

47. External Influences

External influences can impact a business significantly. Business owners are often powerless to control how and when these influences can impact on business.

Typical external influences

- Technology Technology changes all the time and it can affect how
 customers buy from a business, how products are made or even how a
 business is expected to communicate with customers.
- Legislation New laws are created by government to protect consumers, employees and business activities from unethical, unsafe or undesirable working practices. Some legislation can be perceived as being a barrier to easy business and is known as "Red Tape".
- Economic Climate Businesses need to be able to react to changes in the economy. If customers are feeling unconfident in their ability to spend money because of a weak economy, then this could affect a business's ability to generate sales. If exchange rates change, a business will need to deal with the consequences of higher costs or lower demand abroad.

45. Changes in interest rates	
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Effects of lower interest rates:	
Increased customer spending:	
More favourable borrowing:	-
Effects of higher interest rates:	
Reduced customer spending:	
Less favourable borrowing:	
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47. External Influences

External influences can impact a business significantly. Business owners are often powerless to control how and when these influences can impact on business.

Typical external influences

- Technology –
- Legislation -
- Economic Climate –

Food choice

Food choice

Food choices for a balanced diet depend on many factors, such as:

advertising and other point of sale information;

cost and economic considerations;

cultural or religious practices;

environmental and ethical considerations;

food availability:

food preferences;

food provenance; health concerns:

individual energy and nutrient needs:

portion size;

social considerations.

Consumer information

Information can help consumers make informed choices, including: advertising and marketing: media, online blogs/forums: packaging, nutrition and health claims; point of purchase information and product placement:

Cost and economic considerations

The cost of food and money available will influence people's food choices. If money is limited, people may choose to buy more basic items. Luxury items might then be selected for special occasions.

Budgeting

There are many things that we can do to spend money wisely on food. Examples can include:

eating the seasons;

stocking up on food with a long shelf-

taking time to plan meals and write a shopping list;

cooking using one pot;

making fake-away's rather than buying takeaways;

using leftovers;

replacing branded items with cheaper items:

comparing prices and shop around to find the cheapest items: growing your own food.

Environmental and ethical considerations

Some considerations when buying food might be:

- fair trade:
- local food: •
- genetically modified (GM) food;
- organic food:
- free range.

Food availability

Buying food when it is in season will often mean that the price is lower. Technology and the importation of food has allowed food to be available all year round.

Food prices

recipe ideas.

Food prices can and do change throughout the year and over time. This may be due to a variety of reasons, including:

- climate and weather patterns;
- crop failure:
- crop disease;
- seasonality;
- consumer demand;
- agricultural costs increase;
- fuel prices go up;
- increased use of biofuels.

Personal preferences

KS4 FOOD AND NUTRITION KNOWLEDGE ORGANISER T4

A few factors can influence personal preferences, including:

- colour, size and shape of crockery and cutlery used:
- portion size;
- serving style;
- taste, aroma, texture, appearance, shape and colour of food.

Food provenance

Food provenance is about where food is grown, caught or reared, and how it was produced. Food certification and assurance schemes quarantee defined standards of food safety or animal welfare. There are many in the UK, including:

Red Tractor









Marine Stewardshir



Ethical: Relating to personal beliefs about what is

encourage, persuade, or manipulate an audience

Advertising: Advertising is a form of

to continue or take some new action.

communication for marketing and used to

morally right and wrong.

Key terms

Food certification and assurance schemes:

Defined standards of food safety, quality or animal welfare.

Food provenance: Knowing where food was grown, caught or raised and how it was produced. Marketing: Promoting and selling products or services, including market research and advertising.

Religion: A particular system of faith and worship. Seasonal food: Food grown at a particular time of year.

Portion size

Having a healthy, balanced diet is about getting the right types of foods and drinks in the right amounts.



Health concerns

People may choose their food based on their own or their family's health and

- allergy and intolerance, e.g. lactose intolerance, coeliac disease, wheat allergy, diary allergy;
- body image;
- health issues, e.g. coronary heart disease, type 2 diabetes, inflammatory bowel disease, over or under malnutrition:
- mental health.

Individual energy and nutrient needs

The amount of energy and nutrients needed differs between different age groups and between males and females.

Energy needs also depend on activity levels. For example, athletes will have much higher energy requirements due to their high level of physical activity.

Social considerations

- Body image and peer pressure.
- Development of ready meals and a wider range of convenience foods.
- Development of labour saving devices.
- Lack of competence and confidence in the kitchen.
- Lack of time.
- Living arrangement (e.g. living alone).

Food availability

Buying food when it is in season will often mean that the price is lower. Technology and the importation of food has allowed food to be available all year round.

Food choice

Food choice

Food choices for a balanced diet depend on many factors, such as:

Consumer information

Information can help consumers make informed choices, including:

Cost and economic considerations

The cost of food and money available will influence people's food choices. If money is limited, people may choose to buy more basic items. Luxury items might then be selected for special occasions.

Food prices

KS4 FOOD AND NUTRITION KNOWLEDGE ORGANISER T4- Quiz

Budgeting

There are many things that we can do to spend money wisely on food. Examples can include:

Environmental and ethical considerations

Some considerations when buying food might be:

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Energy needs also depend on activity levels. For example, athletes will have much higher energy requirements due to their high level of physical activity.

Personal preferences

A number of factors can influence personal preferences, including:

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Health concerns

wellbeina:



People may choose their food based on

their own or their family's health and





Portion size

Key terms

Ethical:

Advertising:

Food provenance:

Marketing:

Religion:

Seasonal food:

Having a healthy, balanced diet is about getting the right types of foods and drinks in the right amounts.

Food certification and assurance schemes:



Social considerations

Food availability

Buying food when it is in season will often mean that the price is lower. Technology and the importation of food has allowed food to be available all year round.



Year 10 PRODUCT DESIGN Term 5



What we are learning this term:

A. Modern Materials

C. Polymers

E. Technical Textiles

B. Smart Materials

D. Composite Materials

F. Textiles

A. Modern Materials

A modern material is a material that has been engineered to have improved properties.

Туре	Properties	Common Uses
Graphene	Transparent. Very strong and light	Protective equipment and clothing
Metal Foams	Lightweight. Strong under compression. Absorbs energy well.	Prosthetics. Soundproofing and crash protection.
Titanium	High strength-to-weight ratio. Corrosion resistant.	Prosthetics. Aircraft and spacecraft.

B. Smart Materials

Materials that exhibit a physical change in response to some external stimuli and change back once that stimuli has been removed.

Shape-memory alloys (SMA) – spectacle frames	Thermochromic pigments – colour changing spoons
Photochromic pigments - colour changing lenses and windows	Self-healing materials – metals that resist corrosion, concrete that can heal cracks
Ferrofluids formed by magnetic field – hydraulic suspension pistons	Polymorph –modelling and ergonomic handles

C. Polymers – come from crude oil

Thermoforming can be heated and formed repeatedly, thermosetting can only be formed once

-	
Thermoforming (pliable, recyclable)	Thermosetting (good insulators)
Acrylic (PMMA)	Epoxy resin (ER)
High impact polystyrene (HIPS)	Melamine formaldehyde (MF)
High density polythene (HDPE)	Phenol formaldehyde (PF)
Polypropylene (PP)	Polyester resin (PR)
Polyvinyl chloride (PVC)	Urea formaldehyde (UF)
Polyethylene terephthalate (PET)	These are resistant to heat and chemicals

D. Composite Materials

Technical Textiles

A composite material is a mixture of two or more materials to enhance properties.

Fibre-based	Materials	Common Uses		
Glass-reinforced plastic (GRP)	Glass fibres and resin	Boats, instrument cases		
Carbon-reinforced plastic (CRP) Carbon fibres and resin		Formula 1 car bodies, crash helmets, sports equipment		
Glass-reinforced concrete (GRC)	Glass fibres and concrete	Street furniture, urban features.		
Particle-based	Materials	Common Uses		
Concrete	Cement, sand and aggregate	Buildings, street furniture		
Cement	Ceramic and metal	Electronic components		
Sheet-based composite materials – look back to Term 4 – Manufactured Boards				

Maritime Danaity Etherhaard (MDE)

Medium Density Fibreboard (MDF) Plywood Chipboard

	rediffical rexific	•			
Modern	Modern textiles can be engineered to have numerous properties.				
Conductive Fabrics – furniture, furnishings, firefighter clothing touch screen gloves		furnishings, firefighter clothing.			
	 racing tyres and roof vests 	Microfibres – winter clothes and cleaning cloths	Microencapsulation – sports clothing and scratch and sniff perfume samples		

F. Textiles

Textile materials can be found natural or can be formed synthetically

Natural – come from plants or animals	Synthetic – come from coal or oil		
Cotton (plant)	Polyester		
Wool (animal)	Polyamide (nylon)		
Silk (animal)	Elastane		
5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			

Blended – a mixture of fibres that combines and improves properties

l	Polycotton	Kevlar	Sympatex



Year 10 PRODUCT DESIGN Term 5



What	we are lea	arning this term:			D.	Composite Materia	als		
A. Modern Materials C. Polymers E. Technical Textiles		A composite material is a mixture of two or more materials to enhance properties.							
B. Smart Materials D. Composite Materials F. Textiles		Fibre-based		Materials		Common Uses			
A.	Modern	Materials							
A mod	dern materi	ial is a material that has been er	ngineered to hav	ve improved properties.		+			
Туре		Properties		Common Uses					
Graph	iene								
Metal	Foams				Particl	e-based	Materials		Common Uses
Titani	ım								
В.	Smart N	Materials			Sheet-based composite materials – look back to Term 4 – Manufactured Boards				
Mater	ials that ex	hibit a physical change in respo	nse to some ex	ternal stimuli and change back					
		has been removed.		·	E.	Technical Textiles			
		Modern textiles can be engineered to have numerous properties.							
C.	Polyme	rs – come from crude oil			F.	Textiles			
Thern	noforming o	can be heated and formed repea	atedly, thermose	etting can only be formed once	Textile	materials can be found	d natural or can	be formed synthe	tically
Thermoforming (pliable, recyclable) Thermosetting (good insulators)		ng (good insulators)	Natural – come from plants or animals Synthetic – come from co		ome from coal or oil				
					Blende	ed – a mixture of fibre	es that combine	s and improves	properties
			These are res	sistant to heat and chemicals					



Year 10 Engineering Term 5

Understanding the effects of engineering achievements

Types of engineering developments

Structural design – the development of components designed to resist or apply **forces**, for example the frame of a bicycle

Developments include – the use of frames, triangulation and shell structures, the use of CAD to test the structural integrity of a product before manufacture.

Mechanical design – the development of components designed to perform a physical function..

Developments include - Suspension systems, gears and pulleys, chain drives, the use of mechanical advantage.

Electronic design – The development and use of electronic components within products.

Developments include – smart home devices with connectivity to user's mobile phones, touch screen controls, miniaturization of transistors (smaller and more powerful circuits).

Effects of engineering developments

Frame and shell structures: The introduction of cheap and strong materials led to high-rise buildings, fast construction methods and a broad range of shell-frame products (cars, airplanes).

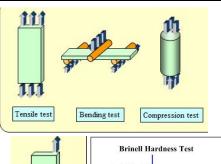
Development of new materials:

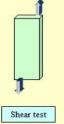
- Some give improved strength and reduced weight
- Smart materials and new alloys increase the diversity of products that can be designed
- Complex synthetic materials are difficult or impossible to recycle **Smart technology:**
- Smart home products in the home leads to designers focusing on linking more products to Bluetooth/wifi
- Smart tech can improve quality of living in a variety of ways
- Smart tech can be difficult to repair and become obsolete quickly

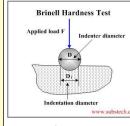
Electronic components:

- Miniaturization of circuits makes for smaller and faster products with increased data storage, making them more efficient and reliable
- The minerals used in complex circuits are finite and difficult to mine, leading to land destruction and pollution. These products are also hard to recycle

Mechanical property testing







st, you need to:

- Have a clear question that can be answered through experiment
- Change only one variable at a time and keep all other conditions the same
- Repeat the experiment multiple times to avoid basing your conclusion on too few events
- 4. Use an **objective measurement system** that others can use in the same way
- Avoid bias and consider the possibility of chance differences

Explain using notes and sketches questions:

- . Must have two or more drawings
- 2. Drawings must be annotated
- Drawings and annotations must give a reasonable answer to the question in the setting they ask for i.e workshop tools used for a workshop process

D. Use of calculations in engineering



Ohms law is used to calculate resistance, current and voltage.

Voltage = Resistance x current

Resistance = voltage / current

Current = voltage / resistance



When using mechanisms (levers, pulleys, gears etc) you can calculate the mechanical advantage using the formula:

Mechanical advantage = load / effort



Calculating the area of a variety of common shapes:

Quadrilateral - Base x height Triangle - (base x height) / 2

Circle – $A = \pi r^2$

To calculate the volume of a prism, calculate the area of a face and multiply by the depth of the prism.

(1:2) (real size: image) Using scale factors when reading or producing working drawings: Scales are shown as ratios, and calculated as fractions i.e a scale of 1:2 is the same as the drawing being ½ size.

How environmental issues affect engineering

Materials developmen t	More emphasis on developing sustainable materials and recycling technology has had a positive impact on the engineering industry, for example the use of starch-based polymers.
Costs	Manufacturing can be made more efficient to reduce overall costs of production. However, some raw material costs are still volatile due to oil and ore scarcity.
Transportati on	Transport is needed at each stage of the life cycle of the product and produces emissions: raw material extraction => manufacture = warehousing => retail => customer use => customer disposal => landfill
Usage	Are customers able to easily repair or maintain the product after it is purchased or does it have planned obsolescence?
Disposal	How do different countries dispose of products? Are there policies in place to ensure recycling?
Sustainabili ty	What design features have been included in the product or its functions to reduce the impact of each stage of the product life cycle? Are the raw materials used renewable? How efficient is the manufacturing process with these materials?



Year 10 Engineering Term 5



Understanding the effects of engineering achievements

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Development of new materials:

- Some give improved and reduced
- Smart materials and new alloys increase the diversity of products that can be designed
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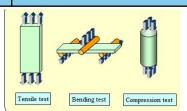
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- Smart home products in the home leads to designers focusing on linking more products to Bluetooth/wifi
- Smart tech can in a variety of ways
- Smart tech can be difficult to repair and become quickly

Electronic components:

- Miniaturization of circuits makes for smaller and faster products with increased data storage, making them more
- The minerals used in complex circuits are and difficult to mine, leading to land destruction and products are also hard to recycle

C. Mechanical property testing



Describe, using notes and sketches, a test that could be conducted in the workshop to measure the ability of a ruler to tension. (include at least two drawings, annotations, and an explanation of the process and how it is recorded). [6]

Use of calculations in engineering



- 1. What is the current in a circuit with a voltage of 9 V and a resistance of 3 $\Omega ?$
- 2. If the resistance in a circuit is halved, what will happen to the current?
- 3. What is the resistance of a resistor in a circuit with a voltage of 12 V and a current of 0.5 A?



What is the mechanical advantage of the two pulley systems on the left? Think about how many anchor points there are.

- 1.
- 2.



What is the volume of the shape on the left?

What would the volume be if there were a 6mm diameter hole drilled through this shape?

(1:2) (real size: image) 1. A map has a scale 1:125,000. The distance between two points on the map is 3.8 cm. What is the real distance in kilometres?

	How	w environmental issues affect engineering				
Materi develo t	ials opmen	Name three modern materials that are sustainable and why.				
Costs		Name three sustainable cost saving measures a company could take:				
Trans on	portati	What are the stages of a product life cycle that require transport?				
Usage	•	Planned obsolescence is – The opposite of this is -				
Dispo	sal	What are the disposal options for a modern bicycle?				
Sustai y	inabilit	Name two modern sustainable materials and two finite resources: Describe a product that uses all four materials:				

Year 10 BTEC Health and Social Care- Component 2: Health and Social Care Services and Values.

				<u> </u>						
What we are learning:		В	B What are the different types of health care services?		C.	What are the different types of social care services?				
 A. Key words B. What are the different types of health care services? C. What are the different types of social care services? D. What barriers are there to accessing care services? 		Primary Care		Primary care is the first point of contact a patient is likely to have with the NHS – you can refer yourself to primary care providers.		Children	Children and young people may need support on a temporary or permanent			
A. Key words for	r this Unit			 Primary care providers include pharmacists, Registered GPs/doctors, 		people	basis because their parent of carer is ill; they have family problems, they			
Primary care	First point of contact when seeking health care	Second	lary Care	walk-in centres, accident and emergency departments (A&E), dentists and Opticians.			have behavioural issues or additional needs. Types of support for children and			
NHS	National Health Service – Tax funded health care in the UK.	Second	ary Care	care. A primary care patient for secondary	y care if they feel it is		young people include foster care, residential care and youth work.			
Secondary care	Specialist health treatment and/or care		necessary for the patient to receive further advice, tests or treatment. • Secondary care providers include Children can adults with specific		with support with specific needs including					
Tertiary care	Advanced specialist health treatment and/or care.			cardiologists (heart), (female reproduction	gynaecologists n), paediatrics	needs	impairments and long-term health issues. Types of support for children and			
Allied health professionals	Professionals who are involved in patient care from diagnosis to recover	Tertiary	Care	(children), obstetrics (childbirth and midwifery), psychiatry (mental health) and dermatology (skin).			adults with specific needs include residential care, respite care and domiciliary care.			
Clinical support staff	Support allied health professionals with the treatment and care of patients.	rendly	treatment or care. A secondary care provider will refer a patient for tertiary care for long-term treatment and/or care. Older Adults		provider will refer a patient for tertiary care for long-term treatment and/or care.		Older adults may need support with a range needs including arthritis, cardiovascular disease, dementia and			
Foster care	A stable family home where care is provided on either a short or long-term basis.			Tertiary care areas include spinal, cardiac (heart), cancer care, chronic pain, burns and neonatal (premature and ill new born babies).			depression. Types of support for older adults include residential care, carers and personal assistants.			
Residential care	Accommodation and care for a number of children, young people or adults living together in one building.	Allied Health Professionals			Professionals of specialities They support patients through all stages of care – from diagnosis to recovery. To work with the public they		of specialities They support patients through all stages of care – from diagnosis to recovery. To work with the public they		Informal Social Ca	
Respite care	Short-term care which provides relief for family member who are carers.		Profession • Allied heal		must register with the Health and Care Professions Council (HCPC). • Allied health professionals include art therapists, dieticians, paramedics.		Professions Council (HCPC).	 Informal carers include a spouse or partner, children, friends and neighbours. Informal carers do practical 		
Domiciliary care	Care received in the person's own home.			physiotherapists, speech and language therapists and radiographers.		therapists, speech and language				
Sensory impairment	Difficulties with senses, most commonly vision and hearing.	Clinical Staff	Support	 Clinical support staff work within a range of departments under the guidance of allied health professionals. They are trained in their roles but are not required to register with the HCPC. Clinical support staff include theatre support workers, prosthetic technicians, dietetic assistant, phlebotomist (collects blood samples), hearing aid dispensers and maternity support workers. 			care.			
Braille	Raised lettering to help visually impaired.						\bigcirc			
Occupational therapist	Offers support to develop independence for daily living activities.									

Year 10 BTEC Health and Social Care-Component 2: Health and Social Care Services and Values.

What barriers are there to accessing care services? D. **Physical Barriers** Difficulty accessing care due to mobility and/or disability. Obstacles include uneven and rough pavements and services, narrow doorways, no lift and transport. Access could be improved by planning journeys in advance and reporting any problems to the council. **Sensory Barriers** • Sensory impairments can be a barrier to accessing care. · A person with poor vision may need glasses or documents in large print. Profound sight problems may benefit from Braille. • A person with a hearing impairment may benefit from a hearing aid or sign language interpreter. Social, Cultural and Social, cultural and psychological barriers may leave people feeling nervous about accessing support. **Psychological** These can include: religion/cultural barriers, negative experience, self-diagnosis, substance misuse, opening hours. • Care services can give individuals opportunities to share their concerns, offer different gender practitioners, facilities to **Barriers** worship and show respect and understanding. **Language Barriers** • Language can be a barrier to accessing care services because individuals and care providers may struggle to understand each other. Support for individuals could include translated documents, translators and interpreters and support from family members. Geographical Individuals may struggle to reach care services because public transport may not run regularly, specialist treatments may require long distance travel and travel can be expensive. **Barriers** Support could include being provided with direct travel or having travel costs reimbursed. • If an individual has a learning disability is can cause difficulty in them accessing care services. **Intellectual Barriers** Support might include a learning disability nurse, speech and language therapist or occupational therapist. **Resource Barriers** • As the population ages and more disorders are being successfully treated, there is a huge strain on health and social care resources – at times it might seem that not everyone can access what they need. • There are huge staff shortages which puts strain on people that work in the health and social care sector. **Financial Barriers** Seeing a GP or using emergency services are free but some services, such as optical and dental care, often involve some payment. This can be difficult for people if they are from a low-income household as they may not feel they can afford to access the care they need.

Year 10 BTEC Health and Social Care-Component 2: Health and Social Care Services and Values.

What we are learning: E. Define the key wordsF. What are the care values and how can they be

implemented?

E.	Define the ke	ey words		
Self-respect		Valuing yourself		
Perso appro	on centred bach	Planning care around the wants and needs of a service user		
Empowerment		Supporting people to take control of their lives and futures by involving them decisions on their care and treatment		
Confi	dentiality	Not passing on information or discussing a private conversation to anyone		
Digni	ty	Being respected and treated with care		
Safeguarding		Policies to ensure children and vulnerable adults are protected from harm, abuse and neglect		
Discrimination		Treating a person or group of people unfairly or less well than others		
Compassionate		Feeling or showing sympathy and concern for others		
Competence		The ability to do something successfully and efficiently		
Consequences		A result or effect, typically one that is unwelcome or unpleasant		
Review		Involves assessing or inspecting something with the intention of making change if necessary		
Empathy		Being able to understand and share feelings and views of another person.		
Insomnia		Difficulties in sleeping		

,							
ļ	F.	What a	re the care values and how can they be implemented?				
Empowering and promoting independence			 Empowerment is when an individual feels in control of their own life and have a say in what happens to them. Some people might need help with empowerment because of their age, circumstances or confidence e.g. elderly people, children, adult with learning disabilities. You can promote empowerment and independence by involving individuals, where possible, in making choices about their treatment. 				
Respect for others		ers	 You can show respect for the individual by respecting their privacy, needs, beliefs and identity. Show respect by being patient when someone takes longer to perform simple tasks due to their age, disability or injury. Do not leave personal files around for others to see or discuss your patients' case with friends. Gain permission before entering a room, provide private place for personal conversations. 				
Maintaining confidentiality		9	 It is a person's right by law to have information about them kept confidential. Care workers and not allowed to talk about one service user to another, or someone who is not involved in helping them get better. This involves not having those private conversations in public places where other can overhear. Paper and electronic files are to be kept confidential and only shared with care workers which are involved in the treatment of the patient. 				
	Preserving dignity		 Preserving the dignity of individuals to help them maintain self-worth, privacy and self-respect. You do this by involving the person in their own care; helping them go to the bathroom; giving the person time they need, checking what they would like to be called; closing door or curtain when they are changing; making sure their clothes are clean; dealing with embarrassing situations sensitively and professionally. 				
	Effective communication		 In health and social care it is important to communicate effectively with service used in order to build trusting relationships. These can be lost of the care worker appears not to care or listen. Recognising different communication needs and trying to overcome them shows that cares respect the individual e.g. when visually impaired providing a leaflet in braille; if can't speak English well, have a translator organised beforehand. Show you value the person through showing empathy, asking questions, not judging, smiling, using their name, giving appropriate eye contact, open body language, giving time to process. 				
	Safeguarding and duty of care		 Health and social care workers have a legal duty to protect service users from harm, neglect or abuse. They must recognise the signs and symptoms of abuse so they can protect people. Signs of abuse include low self-esteem, STDs, unexplained injuries or bruises, insomnia, change in appetite, change of personality, self-harming, fear of being alone etc. What to do: report the abuse, never promise to keep the abuse secret, make it clear that you will have to tell someone e.g. your supervisor or the police. DUTY OF CARE Care workers must work in ways that never put individuals at any risk or harms. They need to know their responsibilities, procedures, deliver care as the care plan states and always report and record any concerns about the service user even if they appear minor. 				
	Promoting anti- discriminatory practice		 Discrimination can be obvious but sometimes it can be subtle and hidden, and The Equality Act 2010 makes it illegal to discriminate against people because of their e.g. age, gender, race, disability, religion, sexual orientation, marital status etc. You can promote anti-discriminatory practice by: having patience with someone who doesn't speak English well; communicating in a way that the person will understand; showing tolerance towards people who have different beliefs and values from you; challenging unkind behaviour. 				

Year 10 BTEC Health and Social Care- Component 2: Health and Social Care Services and Values.

		ш	lale mili	fring own strongths and areas for improvement against the same value	
What we are learning:		Н	identii	fying own strengths and areas for improvement against the care values	
G. How to apply care values in a compassionate way. H. Identifying own strengths and areas for improvement against the care values G How to apply care values in a compassionate		Working together		 All care works have the responsibility to uphold care values. If everyone works together, doing their 'bit', service users and colleagues alike will all be able to have positive experiences. Put any feelings aside, some clients can show anger or aggressions towards you, continues to work in a way that respects each of the care values. Staff training: Staff training keeps everyone updated. Even if they also ready had care values 	
way?				training it is important to have it again and remind them of their importance.	
Show empathy and care by: Being patient Showing sensitivity Understanding Actively listening Having a positive outlook Being encouraging Having genuine concern for other people.		Making mistakes		 Everyone sometimes make mistakes. It is crucial that staff own up to mistakes that they have made, not matter how small. This is part of the duty of care to safeguard individuals, it demonstrates respect. You need to be honest about your mistake, do not pretend it never happened and do not blame someone else. You can: Tell your supervisor, admit it and apologise Be honest and accurate about what happened, 	
Care workers can check themselves against the 'Six C's of Compassionate Care' checklist to make sure they are applying care values with compassion.				 Suggest ways to avoid it happening again Earn back the trust of the person involved Prove you can do the job Do no be too hard on yourself; seek help and guidance from others. 	
Care Helps to improve an individual's health and wellbeing. Care should be tailored to each person's needs and circumstances		Reviewing own applications of care values		 One way to improve skills is to look carefully at the areas you are good at, what you are able to do well and things that you find difficult. Knowing your strengths will allow you to take on task with ease and make you 	
Compassion Shows the care worker understands what the individual is experiencing. Being empathetic to their situation shows care and value to the individual		care values		 feel confident that you are doing a good job. Knowing your weaknesses and what needs improving will help you work on them and develop. It is important to be open with yourself and others in order to progress further and be better at your job. 	
Competence Shows that care workers can safeguard and protect individuals from harm		Receiving feedback		 Regularly review your strengths and weaknesses because they change overtime The purpose of feedback is to let you know what you are doing well and the 	
Communicati on How to adapt to individuals and their circumstances to ensure important information is given and shared-keeping the individual at the heart of everything that is done				 areas you need to improve. This can be formal- like reports and following an observation at work and Informal- like chatting to colleagues at break time. Both types encourage you to feel pleased with what you have done well and motivate you to improve in weaker areas, perhaps even provide a way forward. Remember: when giving and receiving feedback, positives must be noted so that 	
Courage	Protecting individuals by speaking up if you think something is wrong; being brave enough to own up if you have made a			you know what you are doing well and continue to do so. Negatives are hard to uncomfortable to hear, but do not take them personally, you need them to get better at your job and feel more confident.	
mistake. Commitment Carrying out your duties to care for others to the best of your ability.		Using feedba	ck	 Create yourself a SMART action plan to set yourself Specific, Measurable, Achievable, Realistic and Time-related targets or goals to help plan for your improvements 	







Year 10 Cambridge National- Media and Sport- Term 5











What we are learning this term:

Type of media outlet

objectives?

Key word

Broadsheet

Tabloid

Bias

Target

audience

Format

Organisation

- Competition with other media outlets
- Who is the target audience
- Targeting of media coverage
- What does the coverage consist of

Key question from Assessment

Key definition

people

A paper that focus on more serious

news such as politics and finance

A paper that focus on celebrity

gossip and news about famous

or group, especially in a way

considered to be unfair

arranged or set out

a particular purpose

Prejudice for or against one person

A group at which a product such as a film or advertisement is aimed

An organised group of people with

The way in which something is

Main assessment objectives

Learning outcome: Be able to evaluate media coverage of sport



What is the difference between a tabloid and broadsheet newspaper?

A tabloid paper focuses on gossip stories and the lives of celebrities. Whereas broadsheet papers looks at more serious news stories like the economy and finance.

How may stories be reported differently in broadsheet and tabloid newspapers?

Broadsheet

A.

More informative stories



More likely to look at the lives of athletes outside of

A. What sports and clubs are likely to get more media coverage?

Big clubs such as Man UTD, Real Madrid, Barcelona and Liverpool get more coverage than smaller clubs.

Football gets lots of media coverage.

High profile athletes that generate lots of income

different media forms?

Social media- Younger fans

Magazines- Younger fans

Newspapers-Adults

Who would be the target audience for



Negative bias

Focus on negative stories around certain clubs, players, managers and executives.

Continuing to focus on stories for davs/weeks



Positive bias

Continued focus on certain clubs/managers/players and executives.

clubs/organisations/owners may



not be targeted with negative



Key Sections

Type and brand of media outlet

Competition with other outlets

Target audience

Timing of the event

Popularity of athlete/club

Features of the coverage

Representation of the issue

Method of reporting

Format and presentation

Potential bias

Extent of the coverage

Duration of the coverage

How do positive and negative stories get presented differently in the media?

Negative stories may appear in prominent places in the paper (front page).

They may appear with big headlines and photos

Negative stories may run for longer than positive ones.









Year 10 Cambridge National- Media and Sport- Term 5











What we are learning this term:

Type of media outlet

objectives?

Key word

Broadsheet

Tabloid

Bias

Target audience **Format**

Organisation

A.

- B. Competition with other media outlets
- Who is the target audience
- Targeting of media coverage
- What does the coverage consist of

Key question from Assessment

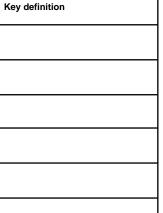
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How may stories be reported differently in broadsheet and tabloid newspapers?



How do positive and negative stories get presented differently in the media?

What sports and clubs are likely to get more media coverage?



Who would be the target audience for A. different media forms?



G. How could potential bias be shown in the

Negative bias





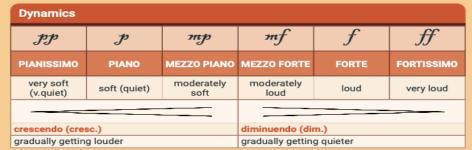
Key Sections

Type and brand of media outlet

Features of the coverage

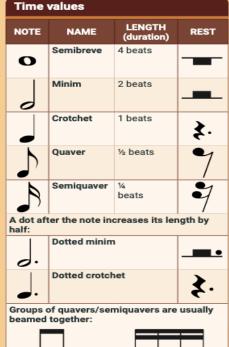
Music terms and signs

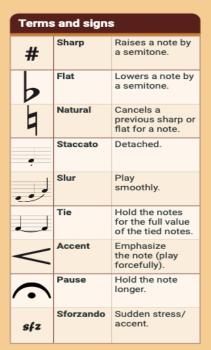
Glossary - Eduqas GCSE Music

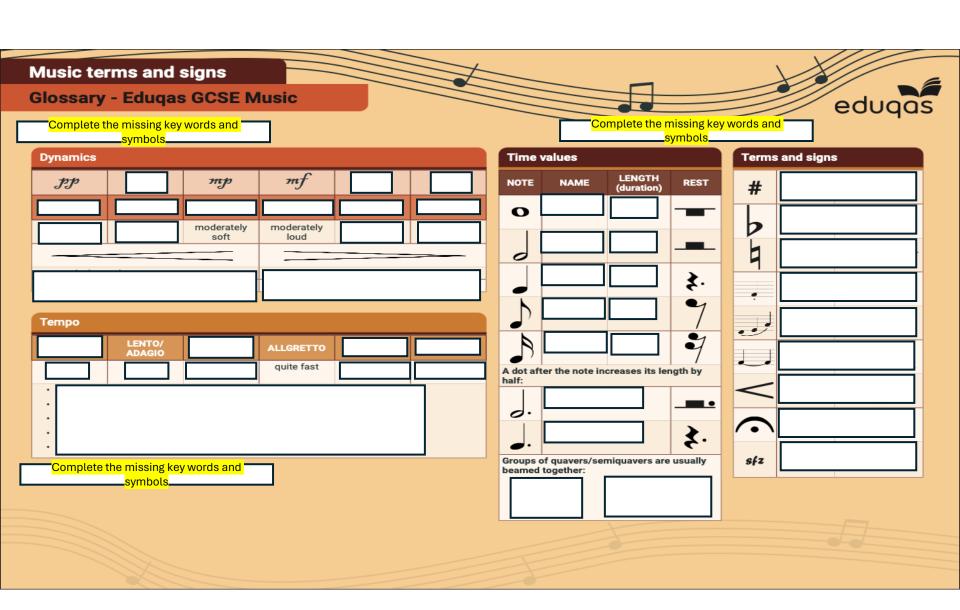


Tempo					
LARGO	LENTO/ ADAGIO	ANDANTE/ MODERATO	ALLGRETTO	ALLEGRO/ VIVACE	PRESTO
v.slow	slow	walking pace/ moderate	quite fast	quick/lively	very quick

- · Accelerando: gradually getting faster
- · Rallentando/ritardando: gradually getting slower
- · A tempo: return to the original speed
- · Ritenuto: in slower time
- Rubato: rhythms are played in a more free/flexible way ('robbed time').







Popular Music

Area of study 4 - Eduqas GCSE Music

Popular music includes:

- · POP
- ROCK
- · RAP
- · HIP HOP
- REGGAE

Plus many other genres, e.g. soul, ska, heavy metal, R&B, country, rock'n'roll.

FUSION: when two different styles are mixed together. This can be two styles of popular music e.g. 'rap metal', or could combine a popular music genre with other styles, folkrock, gospel, world music, classical to create a new and interesting sound. Jazz fusion (jazz and pop) is a popular genre.

Instruments

ELECTRIC GUITAR:

- Lead guitar: plays the melody/ solos/riffs
- Rhythm guitar: plays the chords/ accompaniment.

BASS GUITAR: plays the bass line. DRUM KIT: provides the beat. LEAD SINGER: the main vocalist.

BACKING VOCALS: singers who provide harmony.

Pop/rock groups may also include acoustic (not electric) instruments e.g. trumpet, trombone, saxophone and/or electronic keyboards/synthesizers.

The structure of a pop/rock song may include:

INTRO: short opening section, usually instrumental. VERSE: same music but different lyrics each time. CHORUS: repeated with the same lyrics each time

MIDDLE EIGHT: a link section, often eight bars, with different musical ideas.

BRIDGE: a link/transition between two sections.

OUTRO: an ending to finish the song (coda).
*You may also hear a pre-chorus, instrumental interlude or instrumental solo.

*Strophic songs, 32 bar songs (AABA) and 12 bar blues are also found in popular music.

A typical rock ballad in versechorus form could follow the pattern: A cappella

- Intro
- Verse 1
- Chorus
- Verse 2
- Chorus
- MiddleEight
- Chorus
- Outro

Features and techniques found in popular music				
Riff	A short, repeated pattern.			
Hammer on	Finger brought sharply down onto the string.			
Pitch bend	Altering (bending) the pitch slightly.			
Power chords	A guitar chord using the root and 5th note (no 3rd).			
Distortion	An effect which distorts the sound (creates a 'grungy' sound).			
Slap bass	A percussive sound on the bass guitar made by bouncing the strings on the fret board.			
Fill	A short, improvised drum solo.			
Rim shot	Rim and head of drum hit at same time.			
Belt	A bright, powerful vocal sound, high in the chest voice.			
Falsetto	Male voice in a higher than usual range.			
Syllabic	One note sung per syllable.			
Melismatic	ic Each syllable sung to a number of different notes.			

Technology		
Amplified	Made louder (with an amplifier).	
Synthesized	Sounds created electronically.	
Panning	Moving the sound between left and right speakers.	
Phasing	A delay effect.	
Sample	A short section of music that is reused (e.g. looped, layered).	
Reverb	An electronic echo effect.	

Voices singing without instrumental accompaniment.

Popular Music

Area

	Write about the instruments, in detail	Draw a ruler line then write the definition of each key word
Popular music includes:	Instruments	Features and techniques found in popular music
Plus many other genres, e.g. soul, ska, heavy metal, R&B, country, rock'n'roll.		Riff Hammer on Pitch bend Power chords Distortion Slap bass Fill Rim shot Belt Falsetto Syllabic Melismatic
The structure of a pop/rock song may inc	lude:	A cappella Technology
Intro = Verse = Chorus - Middle Eight = Bridge = Outro = **strophic songs	A typical rock ballad in verse- chorus form could follow the pattern:	Amplified Synthesized Panning Phasing Sample Reverb

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