100% book - Year 11 Mainstream

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



Term 1

| Swindon | Academy 2022-23 |
|---------------|------------------------|
| Name: | |
| Tutor Group: | |
| Tutor & Room: | |

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

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





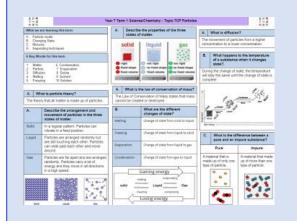






How to use your 100% book of Knowledge Organisers and Quizzable Organisers

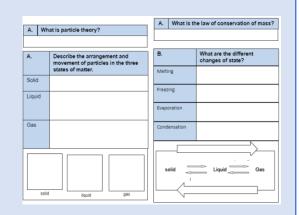
Knowledge Organisers



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

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

Quizzable Knowledge Organisers



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

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

Top Tip

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

Expectations for Prep and for using your Knowledge Organisers

- 1. Complete all prep work set in your subject prep book.
- 2. Bring your prep book to every lesson and ensure that you have completed all work by the deadline.
- 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 theory that is marker in make yof porticles in the three and consequent and movement of particles in the three and consequent and movement of particles in the three and consequent and movement of particles in the three and consequent and movement of particles in the three and consequent and movement of particles in the three and consequent and movement of particles in the three and consequent and movement of particles in the three and consequent and movement of particles in the three and consequent and movement of particles in the three and consequent and movement of particles in the three and consequent and and c | 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 Describe the arrangement and more states of matter. B. 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? Free g. Arrangement / Markon and of matter. Case Case Case Case Case Case Case Case | Check your answers using your Knowledge Organiser. Repeat Steps 3 to 5 with any questions you got wrong until you are confident. Particle theory and matter is made of particles Solid - regular pattern porticles vibrate in fixed position Liquid = particles fre arranged randoms but are still southing each other and mare ground Gas = Particles are for apart arranged randoms, Particles carry and are of energy |

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

Lasting a very

short time

Empheme

ral

politics.

| Key Vocabul | ary | Poem | Context | Events in the poem | Message | Form/ structure |
|-----------------|---|--|--|--|---|--|
| Patriotism | Being devoted to your country When a | 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 | 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 | 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 the pilots were put in the pilots. | 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 |
| Colonialis m | powerful country takes control of a less powerful country | | 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. | 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. | 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. | narrative, where the storyteller speaks directly for herself. This has the effect of heightening the sense of sadness she feels. |
| Dominate | To have power and influence over others | Checking Out Me History- John Agard | Since the early 17 th 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. | The poem focuses on the omission of indigenous history and discusses how colonized people were forced to learn about <i>British</i> history—which had little to do with their actual lives. Not only does the poem call attention to the oppressive nature of colonial education, but it also praises important figures who | 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. | 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 |
| Defiance | Showing that you don't want to obey someone | | 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 | 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. | 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 | 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 |
| Isolated | To be far away from other people or places. | The Émigrée- | 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 | 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 | his own history was omitted. The use of enjambment reflects the chaos and |
| Dictatorial | Telling people what to do in a forceful and cruel way | Carol Rumens | 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 | 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 | 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 | 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 |
| Nostalgia | A warm feeling for the past, particularly a | | their birth to settle elsewhere in the world. | filled with light and happiness. Though there is a clear sense of fondness for the place, there is also a more threatening tone in the poem, suggesting that not all of her memories are happy and that the country she has emigrated to is not always welcoming. | to escape and can restrict us from moving forward in life. There is also a sense of the power of the media – their portrayal of immigrants can lead to a lack of sympathy in society; it is important we do not become insensitive to the pain that can lead to people moving to a new home. | she doesn't want to let her memories go, stop writing about her homeland or give up her past. |
| Fragility | time being easily broken or | 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 | 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. |
| enjambme | damaged. he continuation of a sentence without a | | 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. | 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. | 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. | However he subverts the traditional structure by swapping the stressed and unstressed syllables on certain lines, resisting the regularity of British control. |
| nt | pause beyond the end of a line | 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 | looking out at the conflict and troubles of the | Human power is ephemeral. No matter how much we try to build structures to display our power, nature will always outlast it. Our relationship with paper is unhealthy. We rely on it too much to make records, document ownership and build debt. Instead, we should realise that the significance of human life will outlast the records we | The poem has an irregular structure and no rhyme scheme reflecting the irregularity of life and the |
| Emnheme | Lasting a very | | terrorist at my table'. Most of the poems in that collection relate to religion, terrorism and global | modern world; destruction, war and politics, money and wealth as well as issues like terrorism and | make of it on paper or in buildings. Human life is fragile, and not everything can last. We must understand | lack of and predictability. The fragile structure is |

The poem remarks how nothing is meant to last.

recordings or building with blocks and bricks, we should focus on living.

our fragility and should not try to build our lives through making

symbolic of the fragile

nature of our lives.

w_____n, or _____of a ____that has

clear sense of fo______ for the place, there is also a

banned the I e the speaker once knew.

Despite this, the émigrée's childhood memories are filled with ______. Though there is a

more th_____ng tone in the poem, suggesting that not all of her _____s are h____ and

that the country she has emigrated to is not always

Literal:

Metaphorical:

Tissue explores the varied uses of p

It is written from the point of view of

; destruction, war and politics, money

and wealth as well as issues like terrorism and identity.

and how they relate _____

The poem remarks how

There are two interpretations of this poem-literal and

celebration of - we should make people feel

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to make records, document ownership and build debt. Instead, we

o_____the records we make of it on paper or in buildings.

We must understand our fr_____ and should not try to build

our lives through making recordings or building with blocks and bricks,

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Dictatorial

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enjambme nt

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Storm

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Island-

Seamus

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Tissue-

Imtiaz

Dharker

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birth to settle _____.

Seamus Heaney was

society)

KS4 MACBETH Traditional

| 1. Context | | | |
|---|--|--|--|
| Playwright: Shakespeare (April 23"d1616) Dates: written around 1606 Published: in 'the First Folio, 1 Era: Jacobean Genre: Tragedy = A play endir suffering and death of the main set: Scotland, Structure: Five Act Play | 1623 ng with the | Macbeth was reigned Scotl Shakespeare originates fro Holinshed (a play was mos year after the | e plot is partly based on fact. s a real 11 th Century king who land from 1040-1057. 's version of the story on the Chronicles of well known historian). The st likely written in 1606 – the e Gunpowder Plot of 1605 – the insecurities of Jacobean |
| The Divine Right of Kings says monarch is not subject to eart and that they have the right to from the will of God. It implies God can judge an unjust king attempt to depose, dethrone powers runs contrary to the wand may constitute a sacrilegiaction of killing a king is called is considered a terrible crime. | hly authority o rule directly is that only and that any or restrict his vill of God ous act. The | King James I of England (and VI of Scotland) came to the throne in 1603 following the death of Queen Elizabeth I. The play pays homage to the king's Scottish lineage. The witches' prophecy that Banquo will found a line of kings is a clear nod to James' family's claim to have descended from the historical Banquo. James was convinced about the reality of witchcraft and its great danger to him leading to witch trials. The play is probably not written simply to please James, but certainly looks at relevant ideas. | |
| Shakespearean Tragedy. Mac of Shakespeare's tragedies an specific conventions. The clim in a tremendous catastrophe i death of the main character; t character's death is caused by flaw(s) (hamartia) yet the charsomething the audience can in | d follows ax must end nvolving the he their own racter has | strict religiou vocabulary) of believed to h This idea was Jacobean bel God and prof demons (falle moon, kings, wild animals, other plants, | nain of Being was a belief in a is hierarchy (see key of all things which was ave been decreed by God. important in Elizabethan and iefs. The chain starts from gresses downward to angels, princes, nobles, commoners, domesticated animals, trees, precious stones, precious other minerals. |
| Conve | entions of a Sha | akespearean Tr | agedy |
| A tragic hero who falls from greatness through a flaw of their own character. | Hamartia – the tragic hero the them. | he flaw in the nat destroys | A hero of status – the central characters are people of importance, with power and status to lose. |
| External conflict – his tragedies feature conflict between characters, and | Internal conf are frequent self-doubt or | moments of Many of Shakespeare's | |

always lead to death.

torment.

supernatural influences.

| | 2. Key Chara | acters |
|--------------------|---|---|
| act. vho | Macbeth: The e ruthless. He fall in battle in Act | s from l |
| e :he - n | Lady Macbeth: Macbeth to pur the guilt of thes | sue him |
| | The Witches / N | |
| ı I. / s a | Banquo: Macbe is virtuous, adm | |
| of ably | Duncan: King of leader, held up Macbeth in Act | as the r |
| t in a | Macduff: A solo murdered by M born by caesari | acbeth' |
| and | Malcolm: Dunc play. | an's sor |
| els, | 3. Central T | hemes |
| s, ers, ees, | Ambition | The p Macb comm ambit |
| vith e. | Kingship and Tyranny | The p virtuo called upset |
| | Order and Disorder | The p on a s invert hierar the co |
| | Appearance and Reality | Chara Macb what |

| | eponymous protagonist is the tragic hero of this play. He is both ambitious and is from loyal and respected warrior to a paranoid, tyrannical king, before dying | Ambition | A desire to achieve something e.g. Macbeth and kingship |
|---|---|---------------------|--|
| oattle in Act | v. | Hubris | Having excessive pride or self-confidence |
| cbeth to pur | A strong, ambitious and manipulative woman who exerts pressure on sue him ambition of becoming king by murdering Duncan. Unable to deal with | Tyrant | A ruler who rules through fear and violence |
| guilt of thes | se actions and is driven to madness and suicide. | Corrupt | Acting dishonestly <i>OR</i> being in a state of decay |
| | Weird Sisters: Supernatural and manipulative beings who seem to be able to ire. They are unearthly and omniscient. | Patriarchal | A society where power is in the hands of men |
| | | Duplicitous | Lying and being false. Two-faced. Deceitful |
| | eth's close friend and ally is astute and loyal. Macbeth sees him as a threat. He nired by audiences, and mistrustful of the supernatural witches. | Façade | A false front, mask or illusion. Hiding one's true feelings |
| V: | | Prescient | Having knowledge of things before they happen – the witches |
| | f Scotland at the beginning of the play. He is a virtuous, strong and respected as the model of good kingship by others in the play. He is murdered by 2. | Nihilistic | The belief that everything is meaningless |
| schuff: A cold | dier who is loyal to Duncan and is suspicious of Macbeth. His family is | Courageous | Being very brave |
| rdered by M | tack with Stoyal to Duncari and is assignated on Medicetti, in Staffing Bacbeth. He was an section and therefore was "not of woman born". | Supernatural | Things that are not a part of the natural world |
| ılcolm: Dunc | an's son and next in line to the throne. He is described as a good man in the | Fate | Events being already decided and out of a person's control |
| y. | · | Treachery | Betraying someone's trust |
| . Central T | hemes | Regicide | The killing of a king |
| nbition | The play is about the corrupting power of ambition. Both Lady Macbeth and Macbeth are urged to action by the prophecies of the witches, but they still | 5. Key Terminology, | Symbols and Devices |
| | commit their crimes themselves because they want greater power. Their ambition leads them to violence and death. | Motif | A recurring image or idea that has symbolic importance. The best example in Macbeth would be blood. |
| ngship | The play contrasts the kind and wise rule of Duncan, who is described as a virtuous (good) king, with the brutal rule of Macbeth, who quickly becomes | Soliloquy | When a character is alone on stage and speaks their thoughts aloud to themselves. |
| d Tyranny called a tyrant. The play shows how Macbeth has no divine right to rule and upsets the natural order by killing Duncan. | | lambic Pentameter | A line of a play or poem that has ten syllables organised into five pairs of syllables, where the second in each pair is emphasised. e.g. "When you durst do it then you were a man" |
| der and | The play subverts the natural order of the world. Macbeth's actions are based on a supernatural belief in a prophecy. It depicts an anarchic world: Macbeth inverts the order of royal succession; his wife inverts the patriarchal | Foreshadowing | When a hint or warning is given about a later event. |
| hierarchy; the unnatural world disrupts the natural. The disruption underpins the conflict that is not only external and violent but internal as Macbeth and his wife come to terms with what they've done. | | Dramatic Irony | When a character is unaware of something that the audience is aware of, so they don't know the full significance of their words. |
| Characters in the play are often not what they seem. Lady Macbeth and Macbeth are duplicitous towards Duncan, the witches equivocate (not say what they really mean) and cannot be trusted, Lady Macbeth seeks to manipulate Macbeth. | | Symbolism | When something symbolises a set of ideas e.g. "The raven himself is hoarse" – raven symbolic of death, supernatural. |
| | | | When a character pauses in a conversation to speak only to |

4. Key Vocabulary

KS4 MACBETH Traditional

| 1. Context | | 2. Key Characters | | 4. Key Vocabulary | | | |
|------------|------------------|-------------------|------------|-----------------------|----------------|---------------------|---------------------|
| | | | | Macbeth: | | Ambition | |
| | | | | | | | |
| | | | | Lady Macbeth: | | Tyrant | |
| | | | | | | Corrupt | |
| | | | | The Witches / | Weird Sisters: | Patriarchal | |
| | | | | | | Duplicitous | |
| | | | | Banquo: | | Façade | |
| | | | | | | Prescient | |
| | | | | Duncan: | | Nihilistic | |
| | | | | | | Courageous | |
| | | | | Macduff: | | Supernatural | |
| | | | | Malcolm:. | | Fate | |
| | | | | | | Treachery | |
| | | | | 3. Central T | hemes | Regicide | |
| | | | | | | 5. Key Terminology, | Symbols and Devices |
| | | | Ambition | Motif | | | |
| | | | | Kingship | | Soliloquy | |
| Conv | entions of a Sha | kesnearean Tr | agedy | and Tyranny | | lambic Pentameter | |
| | | espearean n | 9507 | | | Foreshadowing | |
| | | | | Order and Disorder | | Dramatic Irony | |
| | | | | | | Symbolism | |
| | | | Appearance | Appearance | , | | |
| | | | | and Reality | | Aside | |
| | | | | | | | |





T1 Y11 P3.8 – Mainstream Higher Forces and balance

Scalar and Vector Quantities

Scalar quantities – have magnitude only

e.g. temperature, mass and speed.

Vector quantities – have both **magnitude** and **direction** e.g. velocity – speed in a given direction displacement – the change in position of an object

Vectors can be shown using arrows:

Size of arrow = magnitude of the quantity

Direction of arrow = direction of quantity

Contact and Non-Contact Forces

Force = a push or pull that acts on an object due to interaction with another object.

All forces are either:

- **Contact forces** objects are physically touching e.g. friction, air resistance, tension and normal contact force.
- Non-Contact forces objects are physically separated
- e.g. gravitational force, electrostatic force and magnetic force.
- Forces are vectors shown by arrows.



QUESTIONS

- 1. What is a scalar quantity?
- 2. Give 2 examples of a scalar quantity.
- 4. Give 2 examples of a vector quantity.
- 1. What is a force?
- 2. Describe what is meant by a 'contact force'
- 3. Give 2 examples of contact forces.
- 4. Give 2 examples of non-contact forces.
- 5. Are forces scalar or vectors?

- 1. What is a resultant force?
- 2. What happens to a moving object if the forces are balanced?
- 3. What does 'decelerate' mean?
- 4. If an object is stationary and there is a 0N resultant force, what happens to the object?
- 5. What is needed to make an object accelerate?

Vocabulary: displacement, velocity

Resultant Forces

Resultant force = The sum of all forces or overall force acting on an object



Bike is being pushed forward with a force of 13N but there are resistive forces of 13N backwards.

Resultant force = 0N

What happens to the motion depends on what the bike was doing before these forces were applied:

- If the bike was stationary, it will stay stationary
- if the bike was moving, it will continue to move at a constant velocity



Car is being pushed to the left by a force of 350N. It is also pushed to the right by 500N.

Resultant force is: 500N - 350N = 150N

What happens to the motion depends on what the car was doing before these forces were applied:

- If the car was stationary, it will accelerate to the right
- If the car was already moving to the right, it will move faster (accelerate)
- If the car was moving to the left (ie reversing), it will slow down (decelerate)





T1 Y11 P3.8 – Mainstream Higher Forces and balance

Vector Diagrams (HT only)

- Used to calculate resultant forces that are not acting directly opposite each other, on a straight line.

Rules ('tip to tail'):

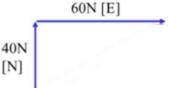
- · Draw first vector to scale, in the direction stated
- Draw second vector, from the tip of the first one in the direction stated.
- · Join the two lines in a triangle and measure the resulting line
- Convert length to force using your scale this is the resultant force

Example:

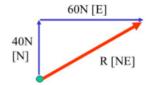
Two forces act on an toy boat - 40N acting north, 60N acting East. Calculate the resultant force and state the direction.

1. Draw the first vector to scale

40N [N] 2. Draw 2nd vector from tip of the first one. Again, to scale.



3. Join the two lines. Measure the resulting line.



Resultant force = 72N NE

- What are vector diagrams used to calculate?
- 2. Where do you draw the second force from?
- 3. Two forces act on a boat, pulling it along. The first force is 3N North and the second is 4N East. Follow the rules and draw the forces acting from the point of origin below:
- 4. What is the resultant force on the boat?





T1 Y11 P3.9 – Mainstream Higher – Motion

Distance and Displacement

Distance

- How far an object moves
- Does not involve direction
- Distance = scalar quantity

Displacement

- Includes both the **distance** an object moves, measured in a straight line, from start to finish point and the **direction** of that straight line.
- Displacement = vector quantity

Speed

You should be able to recall the following typical speeds:

| Activity | Typical Speed (m/s) |
|----------------|---------------------|
| Walking | 1.5 |
| Running | 3 |
| Cycling | 6 |
| A car | 25 |
| A train | 55 |
| Speed of sound | 330 |

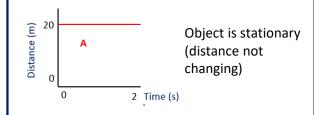
Calculating speed:

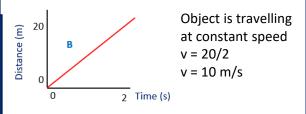
speed = distance x time

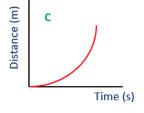
E.g. A car travels 100 metres in 3.8 seconds. What is the average speed?

Distance time graphs

Distance time graphs show the motion of an object The gradient tells us the speed of the object

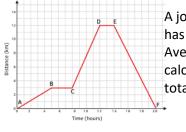






Object is accelerating (HT only) Speed can be calculated by:

- Drawing a **tangent** and finding the **gradient** of the tangent



A journey generally has different speeds. Average speed can be calculated by using total distance ÷ time

Velocity and Acceleration

Velocity & acceleration = vector quantities

- 1. Velocity = **speed** in a given **direction**
- positive velocity = forwards (eg +5 m/s)
- negative velocity = backwards (eg -5 m/s)
- 2. Acceleration is a change in velocity
- positive acceleration = speeding up
- negative acceleration = slowing down

Average acceleration of an object can be calculated using:

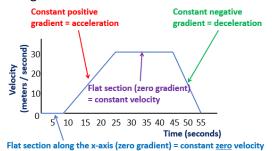
acceleration = <u>final velocity – initial</u> <u>velocity</u>

time taken

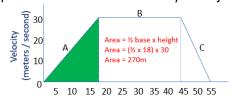
Units for acceleration are m/s²

Velocity time graphs

Show how velocity changes during a journey The gradient shows the acceleration



HT only - area underneath a velocity time graph is the distance travelled by an object







T1 Y11 P3.9 – Mainstream Higher – Motion

- 1. What type of quantity is distance?
- 2. What is 'displacement'?
- 3. Why is displacement a vector quantity?

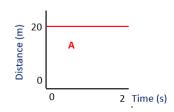
Speed

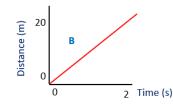
1. Complete the table:

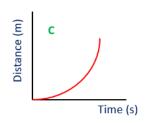
| Activity | Typical Speed (m/s) |
|----------------|---------------------|
| Walking | |
| Running | |
| | 6 |
| A car | |
| | 55 |
| Speed of sound | |

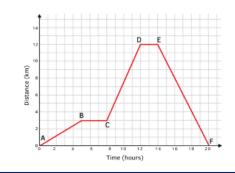
- 2. What is the equation linking distance, speed and time?
- 3. What are the units for speed?

1. Describe the motion of the objects:

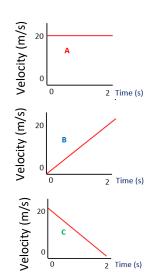








- 1. Define velocity and acceleration. Give the units.
- 2. What does a negative velocity indicate?
- 3. What does a negative acceleration indicate?
- 4. What is the equation linking acceleration, final velocity, initial velocity and time?
- 5. Describe the motion of the objects shown in the graph (include numbers if you can!)



- 5. How do you calculate acceleration from a velocity time graph?
- 6. (HT) What does the area under the line on a velocity time graph show?





T1 Y11 P3.10 – Mainstream Higher – Forces and motion – Required Practical – Acceleration

Aim: To investigate the effect of **varying force** on the acceleration of an object of constant mass.

You may be given any of the following apparatus set-ups to conduct these investigations:

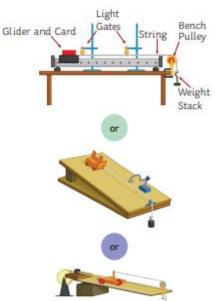
Independent variable = force applied Dependent variable = acceleration Control variables = mass of toy car and surface car is on.

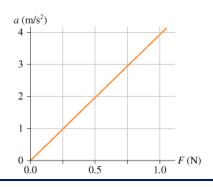
Method (using toy car)

- 1) Place the car on a ramp. Incline the ramp until the car just does not move. This is to remove as much of the effect of friction as possible.
- 2) Set up a light gate at the end of the ramp
- 3) Place a 1N weight on the pulley attached to the toy car.
- 4) Allow the weight to drop and read the acceleration of the car from the light
- 5) Repeat the experiment several times, decreasing the weight on the pulley each time (e.g. 0.8N, 0.6N, 0.4N etc.) Place the removed mass onto the car to keep the mass of the system constant

Results

Acceleration is proportional to force applied





Aim: Investigate the effect of **varying mass** of an object on the acceleration produced by a constant force.

You may be given any of the following apparatus set-ups to conduct these investigations:

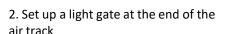
Independent variable = mass of glider

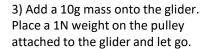
Dependent variable = acceleration of glider

Control variables = force applied and surface car is on

Method (using glider)

1) Place the glider on the track. Switch on the air blower and adjust until the glider just doesn't move. This is to remove as much of the of friction as possible.

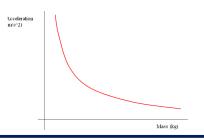


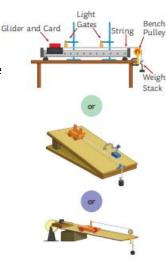


- 4) Record the acceleration from the light gate
- 5) Repeat the experiment several times, increasing the mass on the glider each time (e.g. 20g, 30g, 40g etc.) whilst keeping the weight (1N) on the pulley constant.

Results

Acceleration is inversely proportional to mass



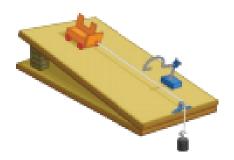






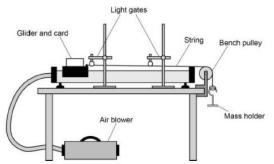
T1 Y11 P3.10 - Mainstream Higher - Force and motion - Required Practical - Acceleration

A student was investigating the effect of changing the force on the acceleration of a toy car down a ramp, using the equipment shown below:



- 1. What provides the force for the car to move?
- 2. Why is the ramp tilted?
- 3. What is the independent variable in the investigation?
- 4. What is the dependent variable?
- 5. How is force changed during the experiment?
- 6. What is the name of the piece of equipment shown that measures the acceleration?
- 7. How is mass kept constant throughout the experiment?
- 8. What relationship do you expect to see between force and acceleration?

A student was investigating the effect of changing the mass of an object on the acceleration, using the equipment shown below



- 1. What is the independent variable?
- What is the dependent variable?
- 2. What variables need to be controlled?
- 4. Why is the air blower switched on?
- 5. Describe the relationship you would expect to find between mass and acceleration



Vocabulary: momentum

Stopping Distance

Stopping distance = thinking distance + braking distance

- Greater the speed of vehicle – greater the stopping distance.

Thinking Distance (reaction time)

Thinking distance = distance travelled before driver reacts and presses brakes.

Reaction times are typically 0.2s to 0.9s

Factors that affect a driver's reaction time:

- Tiredness
- Drugs
- Alcohol
- Age
- Distractions (e.g. phone/music)

Momentum (HT only)

- Defined by the equation:

momentum = mass x velocity

 $p = m \times v$

Units:

momentum = kilograms metre per second (kg m/s) mass = kg

velocity = m/s

- In a closed system, total momentum before an event is equal to the total momentum after the event – this is called conservation of momentum.

Braking Distance

Braking distance = the distance travelled by a vehicle once with brakes are applied until it reaches a full stop.

It can be affected by:

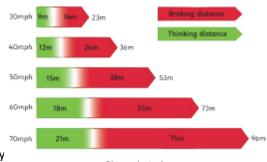
- wet/icv roads
- poor vehicle conditions (brakes/tyres)

When a force is applied to brakes, work is done by the friction between the car wheels and the brakes.

Work done – reduces the kinetic energy store and energy is transferred to the thermal store of the brakes, increasing their temperature.

Increased speed = increased force required to stop the vehicle

Very large decelerations can lead to brakes overheating and/or loss of control of the car.

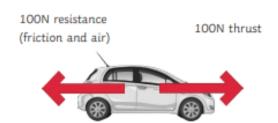


Distance (metres)

Newton's First Law

If resultant force acting on object is zero:

- Stationary object will remain stationary
- Moving object will continue at a steady speed and in the same direction.



(HT only) Inertia = tendency of an object to continue in a state of rest of uniform motion (same speed and direction)

Newton's Second Law

Acceleration of an object is proportional to resultant force acting on it and inversely proportional to the mass of the object

Resultant force = mass x acceleration

 $F = m \times a$

(HT only) Inertial mass = how difficult it is to change an object's velocity. Defined as ratio of force over acceleration.

Newton's Third Law

When two objects interact, forces acting on each other are always equal and opposite.

e.g. a hammer hitting a nail The hammer exerts a force on the nail, and the nail exerts an equal and opposite force on the hammer.







- 1. What is stopping distance?
- 2. What is the equation linking braking distance, stopping distance and thinking distance?
- 3. What is the typical reaction time range of a human?
- 4. What factors may affect a driver's reaction time?
- 1. What is the equation linking mass, momentum and velocity?
- 2. What are the units for momentum?
- 3. What happens to total momentum during a collision or explosion?

- 1. What is 'braking distance'?
- 2. What factors affect braking distance?
- 3. Describe the energy transfers when brakes are applied to stop a moving car
- 4. Why are large decelerations dangerous?
- 1. What happens to a stationary object when the resultant force acting on the object is zero?
- 2. What happens to a moving object when the resultant forces are zero?
- 3. (HT) What is inertia?

- 1. State Newton's second law.
- What is the equation linking acceleration, force and mass?
- 3. What is inertial mass? (HT)
- 1. State Newton's third law.
- 2. Describe the forces acting in the picture





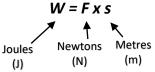
Work done and Energy Transfer

- When a force acts on an object and makes it move – **work is done**.

Work done = energy transferred

Work done is calculated by:

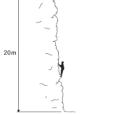
work done = force x distance



- One joule of work is done when a force of one newton causes a displacement of one metre.
 - 1 joule = 1 newton-metre

e.g A climber and his gear weigh 750N. Calculate the energy transferred top of the cliff

W = F s W = 750 x 20m W = 150001



- Work done against the frictional forces acting on an object causes a rise in the temperature.



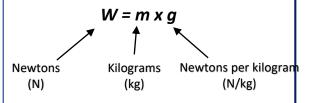
Gravity

Weight = the **force** acting on an object due to gravity.

- Gravity close to Earth is due to the gravitational field.
- Weight of an object depends on the gravitational field strength at the point where the object is.

Weight can be calculated using:

weight = mass x gravitational field strength



- Earth's gravitational field strength = 9.8N/kg
- Weight of an object can be considered to act at a single point = object's 'centre of mass'
 - Weight can be measured using a **newton meter**.

Newton meter

Forces and Elasticity

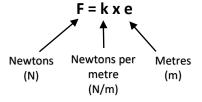
- When work is done on an elastic object (e.g. stretching or compressing a spring), energy is stored as elastic potential energy.

Elastic deformation:

- When force is applied, object changes shape and stretches.
- When the force is no longer applied, object returns to original shape.

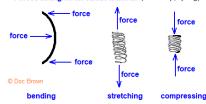
Inelastic deformation = stretched beyond limit – will not return to original shape and size.

Force = spring constant x extension



Two forces are needed to stretch or compress

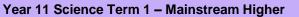
Forces acting on an elastic material (steel strip, spring)



Work done in stretching (or compressing) a spring:

elastic potential = 0.5 x spring constant x (extension)² energy

$$E_{e} = \frac{1}{2} \times k \times e^{2}$$







1. Define weight. When an elastic object is stretched or When is work done? compressed, which energy store is filled? Give the equation which links distance, 2. 2. What does the weight of an object force and work done? depend on? What is 'elastic deformation'? 3. What is work done the same as? What is 'inelastic deformation'? 3. Give the equation which links gravitational field strength, mass and weight? Complete this sentence: One joule of 4. What happens to a stretched spring work is done when... when the force is removed? 4. What is 'centre of mass'? 5. What is the relationship between joules What is the equation linking extension, and newton-metres? force and spring constant 5. How can weight be measured? What does work done against the 6. 6. What is the value for Earth's frictional forces acting on an object gravitational field strength? How many forces are needed to stretch cause? or compress an object?





Required Practical

Aim: Investigate the relationship between force and extension for a spring (or any elastic object, eg elastic band)

Method

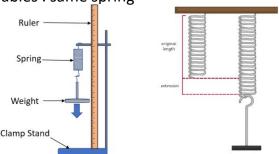
- 1. Hang a spring from a clamp and stand
- 2. Measure original length of the spring and record this.
- 3. Attach a 100g mass record the new length of the spring.
- 4. Continue adding 100g masses recording the length each time, up to a total of 500g.
- 5. Work out the extension for each mass using:

final length - original length

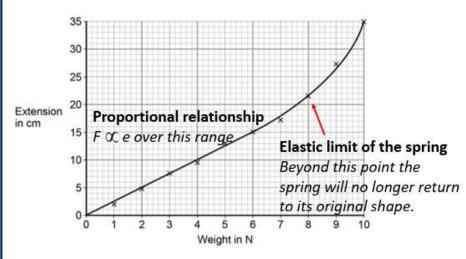
- 6. Repeat steps 1-5 twice and calculate a mean
- 7. Plot a line graph with extension (m) on the x-axis and force (N) on the y-axis.

Independent variable: mass on the spring Dependent variable: extension of the spring

Control variables: same spring



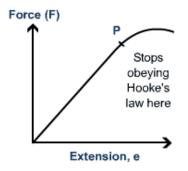
Results:



- There is a proportional relationship (shown by a straight line through the origin) at first.
- This means: Force

 Extension (F

 E)
- However, there comes a point when the 'elastic limit' of the spring is reached. This is also known as the **limit of proportionality**.
- If more force is applied after this, relationship is **no longer proportional**.
- After this point, the spring will not return to its original shape and size when the force is removed.



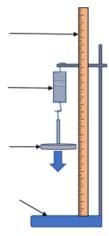
You may see the graphs with the axes switched – with extension on X and force on Y.

gradient of linear part = spring constant, k, for the spring being used.



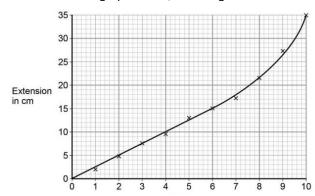


- 1. What is the independent variable in the investigation into the effect of force on extension of a spring?
- 2. What is the dependent variable?
- 3. How is the dependent variable measured?
- 4. What range of masses could be used?
- 5. Label the equipment used to investigate the stretching of a spring below:

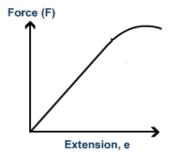


6. Why are repeated readings taken for each mass?

1. Label the X axis for the graph below, including units



- 2. Label the part of the graph that shows force is directly proportional to extension
- 3. Label the limit of proportionality for this spring
- 4. What is the symbol for 'proportional'?
- 5. How could you use a graph like this to calculate the spring constant of this spring?





GCSE Geography. Paper 2. 2. Economic world. UK futures



1. Economic change in the UK 50 š ue to mechanisation. Primary 7 due to industrial revolution then 3 Secondary due to de-industrialisation. **7** due to wealth (**7** disposable income) Tertiary High-tech jobs including research and Quaternary | IT. 7 due to government policies and the increase in technology. Why has our economy changed? The decline of a county's traditional De-industmanufacturing industry due to rialisation exhaustion of raw materials, loss of markets and competition from NEEs. Government A plan decided by a government to policies manage issues in a country. The process which has created a more Globalconnected world; with increases in the isation movement of goods/people worldwide

| 2. Post industrial economy | | | | |
|----------------------------|---|--|--|--|
| Tertiary a | Tertiary and quaternary sector employed 81% in 2011. | | | |
| IT | Employs over 60,000 people. | | | |
| Services | Retail is the largest sector. Employs 4.4mill | | | |
| Finance | London is the world's leading centre. HSBC | | | |
| Research | Government invested £30bill in 2013. | | | |
| Science parks | Groups of <u>high tech</u> industries and those doing scientific research. Located near universities (for graduates, share facilities). | | | |
| Business parks | Purpose built areas of offices and warehouses (on edge of cities as less congestion, cheaper, good transport links). | | | |

| | 3. Environmental impact of industry | | | |
|--|---|---|--|--|
| | Air and water pollution. Soil degradation. | | | |
| | Releases CO ₂ increasing the rate of global warming. | | | |
| Transport of materials is by road 7 air pollution. | | | | |
| Example of modern industry being | | | | |
| | environmentally sustainable | | | |
| | Google | London Landscraper started 2018. | | |
| | 686 bikes spaces | Encourages cycling to work. | | |
| | 4 car spaces | < congestion/CO ₂ emissions. | | |
| | Solar panels. | Reduces fossil fuel consumption | | |
| | 19,800 kWh | and reduces carbon footprint. | | |
| | Rooftop | Urban greening. < CO₂. Collects | | |
| | gardens | rainwater, Encourages wildlife. | | |

| 4. Changes in the rural landscape | | | |
|-----------------------------------|--|--|--|
| Population | Outer Hebrides | | |
| decline | (away from cities, limited opportunities). | | |
| Social | ₱ Declined by >50% since 1901. | | |
| | † ↑ aging population = care issues. | | |
| changes | ₱ Less children > schools shut. | | |
| Economic | Services close <u>ie</u> post offices. | | |
| changes | | | |
| changes | Government subsidies cost of ferries. | | |
| Population | South Cambridgeshire | | |
| growth | (near large cities, people can commute). | | |
| | ₱ Migrants from Cambridge, some now | | |
| Social | from Eastern Europe too. | | |
| | ₱ Proportion of elderly increasing (>65). | | |
| changes | ₱ 80% car ownership = > congestion. | | |
| | ₱ Young people are costed out. | | |
| Economic | å ↑house prices. Less affordable | | |
| changes | housing | | |
| | å Petrol prices ↑. | | |

| 5. Impi | rovements in infrastructure |
|----------|---|
| Road | Upgrading 'Smart motorways' M4. Variable speeds, reducing accidents, extra lanes. 2014 Road investment strategy £15 bill. New construction jobs, boost economy. |
| Rail | Crossrail in London. Puts extra 1.5 million within 45 mins commute of capital city. HS2 to reduce journey times. London to Manchester in 1 hr 8 minutes. |
| Port | Liverpool 2. Doubles capacity to over 1.5 million containers a year. 96% of UK imports/exports through ports. |
| Airports | Heathrow expansion. 3rd runway £18.6bill |

| 6 Nor | th-South divide |
|----------|---|
| | Decline of heavy industry in North (coal) |
| Causes | Investment in finance and service industry |
| | in the South |
| | Investment in infrastructure in South |
| | Higher unemployment / lower wages (40%) |
| Impacts | Poor health, lower life expectancy (10 yrs) |
| in north | Poor education. |
| | There are SOME exceptions |
| Strateg | ies attempting to resolve |
| | 1.1000 |

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



Science parks Business parks

GCSE Geography. Paper 2. 2. Economic world. UK futures



| 1. Econ | omic change in the UK |
|---|--|
| 70 (%) 60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | re-industrial Industrial Post-industrial |
| Primary | |
| Secondar | У |
| Tertiary | |
| Quaternar | у |
| Why has o | our economy changed? |
| De-indust rialisation | |
| Governmer policies | nt |
| Global- isation | |
| 2. Post | industrial economy |
| Tertiary ar | nd quaternary sector employed 81% in 2011. |
| IT | |
| Services | |
| Finance | |

| 3. Environmental impact of industry | | | | | |
|-------------------------------------|----------------------|--|--|--|--|
| | | | | | |
| | | | | | |
| | | | | | |
| Example of m | odern industry being | | | | |
| environmenta | ılly sustainable | | | | |
| Google | | | | | |
| | | | | | |
| 686 bikes spaces | | | | | |
| 4 car spaces | | | | | |
| Solar panels. | | | | | |
| 19,800 kWh | | | | | |
| Rooftop | | | | | |
| gardens | | | | | |
| | - | | | | |

| Population decline Social changes Economic changes Population growth Social changes Economic changes | | |
|---|------------|---------------------------|
| decline Social changes Economic changes Population growth Social changes Economic | 4. Chang | es in the rural landscape |
| Social changes Economic changes Population growth Social changes Economic | Population | |
| changes Economic changes Population growth Social changes Economic | decline | |
| changes Economic changes Population growth Social changes Economic | Social | |
| Economic changes Population growth Social changes Economic | | |
| changes Population growth Social changes Economic | changes | |
| changes Population growth Social changes Economic | | |
| changes Population growth Social changes Economic | Economic | |
| Population growth Social changes Economic | | |
| growth Social changes Economic | | |
| Social changes Economic | - | |
| changes Economic | 8 | |
| changes Economic | | |
| changes Economic | | |
| Economic | | |
| | | |
| changes | | |
| | changes | |
| | | |

| 5. Impi | 5. Improvements in infrastructure | | | | |
|----------|-----------------------------------|--|--|--|--|
| Road | | | | | |
| Rail | | | | | |
| Port | | | | | |
| Airports | | | | | |

| 6 Nort | h-South divide |
|-----------------------------|--------------------------|
| Causes | |
| Impacts in north | |
| Strategi | es attempting to resolve |
| regional | differences |
| Devolving more powers | |
| Northern Powerhous | |
| Enterprise Zones | |



Year 11 OCR A Term 1 – People of the world



| | | | | | | - | | | | |
|---|--|---|--|-------------------|--|--|---|--|--|--|
| A. | How can | ow can we measure development? | | | | B. What has caused uneven development? | | | What is Nigeria like? | |
| Life expecta | The average lifespan of someone born in that country | | Natural resources | | | ` ' 3 ' | | Nigeria's environmental,/ political/ economic | | |
| Birth rate | Number of live births per 1000 per year | | 0 1 1 11 | | | Access to clean, safe water | | context | | |
| GDP per ca | apita | An average of the national person per year in \$ | gross domestic product per | Colonialism | | One country goes into another country and claims they are in power. They can steal their raw materials. | | Nigeria is an EDC in west Africa. It borders Niger to the north and Benin to the west. Nigeria lies on the Atlantic Ocean. | | |
| Literacy rat | e | Percentage of people over and write | the age of 15 who can read | Industrialisation | | | Factories are built, increasing trade and increasing economic | | Nigeria has a tropical climate in the South (near the Niger delta) and semi-desert | |
| Death rate | | Number of deaths per 100 | 0 people per year | | | development | | climate in the North. | | |
| HDI | | Measures life expectancy, capita. Scored 0-1, 0 is lov | education and income per v. | Trade | Trade Can be fair or unfair. Hel increase their economy. | | or unfair. Helps a country eir economy. | Nigeria was colonised by the UK and became independent in 1960 It has bigh levels of interpolational migrations. | | |
| Internet use | ers | Percentage of people who | have access to the internet | Clima | ite | | mate (too hot or too cold) ustry and affect health | 1 | It has high levels of international migration due to jobs in the oil industry | |
| A. | Но | w can we measure develo | pment? | | | Will lilling | ustry and ancornealin | | Agriculture in Nigeria provides a stable food supply for much of West Africa | |
| | | POSITIVE | NEGATIVE | | | | | | Nigeria has had a stable government since | |
| Life expectancy | he | ows condition of althcare and quality of | Does not consider political factors such as war | C. | The diffe | rent types of aid | | | 2015 | |
| | services | | | Aid | | When a country or organisation gives resources to another country (e.g. Money, products or technologyp | | What has enabled Nigeria to develop? With a population of 182 million, | | |
| Birth rate Shows developmen healthcare (e.g., | | • | Does not consider how long babies survive in the country | | | | | | | |
| | contraception) | | | | | al aid given by one country to ften has 'strings' attached. | | Nigeria has the largest population of any African country. | | |
| GDP per ca | col | ows how wealthy a untry's population is uality of life) | Very small/ large populations can disrupt data (e.g. China) | Multilateral aid | | Given by many different countries or charity organisations (e.g. Oxfam, red cross) | | Nigeria has grown mainly through the export of raw materials such as | | |
| Literacy rat | ed | ows the quality of ucation received in a untry | Does not consider other factors that disrupt education (e.g. water collection) | Short- | -term aid | , | | • | oil, oil palm and cocoa. They export In 2014 it has the highest GDP in | |
| Death rate | he | ows the quality of althcare/ disease/ od/water | Can be disrupted if country has an elderly population (Japan) | Long- | term aid | Aid given over a long period of time to support a country's development (e.g. Oxfam goat aid) | | | Africa | |
| HDI | | es a combination of easures= more accurate | | | | | Factors contributing to 1 | Nigeri | a's economic growth | |
| Internet use | ers Sh | ows the development of | Does not consider the quality | | | Imports | Goods coming into a count | ry | | |
| | infrastructure in a country of this infrastructure | | | Exports | Goods leaving a country | | | | | |
| D. How | does aid promote and hinder development? | | | | | International When one country (e.g. | | When one country (e.g. UK) funds businesses in another country (e.g. Nigeria) The 'make-up' of the population. E.g how old or young/ males and females. | | |
| Promote | Aid can help a country improve it's healthcare, communications using ready developed technology from more developed nations help a country recover quickly after a natural disaster. | | rapidly by inve | | investment | Nigeria) | | | | |
| Hinder | | | dence on sti | | Population structure | The 'make-up' of the popu | | | | |
| | in aid could be used in the wrong places (e.g. armament). Tied country into more debt as they spend money buying goods from | | ig places (e.g. armament). Tied a | aid can p | ut a | d can put a Employment How the workforce i | | divided up (primary/ secondary/ tertiary) | | |

structure

country into more debt as they spend money buying goods from wealthy

nations,

| | | OCR A | – People of th | ne world | | | | |
|-----------------|--------------------------------|----------|------------------|--|--------------------------|-------------------------|-------|--|
| A. How | w can we measure development? | | | B. What has caused uneven development? | | | E. | What is Nigeria like? |
| Life expectancy | | | Natural resource | | ces | | | eria's environmental,/ political/ economic |
| Birth rate | | | Cala | | | | COI | <u>ntext</u> |
| GDP per capita | | | Coloi | nialism | | | | |
| Literacy rate | | | Indus | strialisatio | n | | | |
| Death rate | | | | | | | 41 | |
| HDI | | | Trade | e | | | | |
| Internet users | | | Clima | ate | | | | |
| A. | How can we measure develo | pment? | | | | | | |
| | POSITIVE | NEGATIVE | | | | | _ | |
| Life expectancy | | | C. | The diff | erent types of aid | 1 | Wh | at has enabled Nigeria to develop? |
| Birth rate | | | - Aid | | | | | |
| | | | Bi lat | eral aid | | | ┨ | |
| GDP per capita | | | | 0.0.0 | | | | |
| | | | Multil | ateral aid | | | 7 | |
| Literacy rate | | | Short | t-term aid | | | - | |
| | | | Onon | t tomi aid | | | | |
| Death rate | | | Long | -term aid | | | 1 | |
| | | | | | | | | |
| HDI | | х | | | | Factors contributing to | Niger | ia's economic arowth |
| Internet users | | | 1 | | Imports | | | |
| | | | | | Exports | | | |
| D. How does | s aid promote and hinder devel | lopment? | | | | | | |
| Promote | | | | | International investment | | | |
| Llindor | | | | | Population structure | | | |
| Hinder | | | | | Employment | | | |
| | | | | | Employment structure | | | |
| | | | | | | | | |



Year 11 History: 1. Spain reaches the New World, c1490-1512



Spain c1490: exploration, religion and ambition

- Most people knew the world was round Most of Europe was mapped
- The Spice Trade with the East Indies was well established
- Portugal and Spain were rivals both wanted to find a sea route to the East Indies
- The Catholic Church had 2 concerns in the 2nd half of the 15th Century:
- Defend Christendom
- Spread Christianity to new lands

Why did Spain agree to sponsor Columbus?

Christianity Isabella was keen to continue spreading

Christianity to the East Indies.

Juan Perez, a priest and friend to Isabella, helped Columbus while he made his case.

Finding the sea route to the East Indies

| before Portugal would give Spain international status. |
|--|
| |

merchants.

Columbus' return to Spain 1493

| A successful voyage would bring riches to |
|--|
| the Spanish treasure and wealth to Spanish |

Sailors' fears

As the sailors had not spotted land for so long, they came close to mutiny. They allowed Columbus 2 more weeks.

Martin and Vicente Pinzon helped Columbus get ships and crew.

Columbus had to change routes to avoid Portuguese caravels.

Columbus kept 2 different logs to stop sailors getting worried:

Columbus and Martin Pinzon disagreed on the route. Quarrels Land

Importance of Santo Domingo

It became the centre of Spanish

administration in the Caribbean.

impressive stone buildings

-Wide roads and squares surrounded

-The building housed administration offices

were rules were issued and taxes collected.

-Courts were established to control the laws

In 1503, Ferdinand and Isabella issued a

series of rules about educating the Indians:

-Indians were to live in towns and pay taxes.

-Taught about Christianity and expected to

Columbus' First Voyage 1492

Finding ships

and crew

Rivalry at sea

Possible

Mutiny

On the 10th October, after 6 weeks at sea, the crew spotted land.

2 caravels - the Nina and the Pinta

I carrack - the Santa Maria (flagship)

-1 was accurate and he kept secret

-The other log recorded shorter distances

2

4

Effects of Spanish Settlements

Gold mines set up in Haiti - most of the work done by natives.

Tainos and Carib societies destroyed in order to provide work for the Spanish.

Columbus had captured natives to sell as slaves – Isabella not pleased and sent slaves back

Encomienda system set up. Nicolas de Ovando set this up in 1502.

Diseases like smallpox killed many natives. 1492 around 500,000 natives. By 1507 only 60 000

Imperial Policy towards the Caribbean

Problems in the Bahamas and La Navidad Disappearance

of Pinta

Wrecking of Santa Maria

equipment

from the Santa

Decision to leave men behind

Taking goods and

Tainos and Caribs

La Navidad built

Impact of contact with the Natives

Gold, cotton and

tobacco Natives wore gold but would not tell

the Spaniards where it came from. Kapock was used by the natives - it could be spin into thread and woven into cloth.

Spaniards sailing

with Columbus

habit of smoking

tobacco.

Tainos - considered friendly and peaceful, allowed Columbus to build La Navidad, found at San Salvador. Caribs - mainly found east of the Bahamas, raided the Tainos taking women, rumours quickly picked up the that they were cannibals.

to take all crew to Spain Stripping Santa Maria of timbers

Incident at

Samana

On way back to

Spain - Samana,

Haiti. Men went

heads and large

exchange went

violence. They

learnt that the

natives could be

dried human

canoes. An

wrong and

erupted in

hostile.

ashore and found

Nina too small

Rivalry with Portugal King John believed he had claim to the lands

the ground on 28th Nov

A new settlement was

Spaniards wanted

adventure and gold.

returned to Haiti in

September 1494.

named Isabela. It failed as

Columbus went exploring

and found Jamaica. He

1493.

Columbus had discovered. This led to talks with Spain to determine who had rights over what lands as Spain were getting ready to send Columbus back to govern.

4th March 1493 Columbus lands in Portugal

and meets King John. Columbus is sent

congratulations letters and is cheered by

crowds in his way to Barcelona.

Wealth

Isabella and Ferdinand encouraged Columbus to carry out another voyage. Columbus was given new titles, a new coat of arms and issued a pension for life. He was also given

powers to govern lands in the New World.

The role of the pope

The Pope gives Isabella and Ferdinand his

support for the new 'Spanish Indies'. He is

excited by Columbus' discoveries and wanted

Christianity to spread to these lands.

Columbus' Rewards

The Treaty of Tordesillas 1494

On 7th June an agreement was reached between Spain and Portugal. An imaginary line was drawn from the North to the South pole. All lands to the west were for Spain. Lands to the east were for

| La Navidad and Isabela | Santo Domingo |
|----------------------------|--|
| La Navidad found burned to | Bartholomew left in charge when Columbus returned to Spain |

Columbus as governor

Rebellions kept breaking out so Columbus carried out executions on both natives and Spaniards. September 1500 - Bobadilla sent to take over from Columbus, Columbus arrested and sent back to Spain in chains.

He built Santo Domingo. Columbus returned in 1498 to problems - Tainos and Spaniards not cooperating. Order restored by giving Spanish rebels land and providing native labourers to work the land.

live as Christians. -Taught how to read, write and dress. Reports reached Spain about the abuses of Indians. Dominicans were sent to stop the mistreatment. Spaniards shocked at the mistreatment of natives.

Catholic Missionaries

Regulation of Exploration

Establishment of a monopoly

Caribbean. Powers included:

-Collect taxes

-Collect up to date trade routes.

-Control who travels to the Indies. However, there was smuggling and people

In 1503, the Casa de Contractacion (House of

Trade) was established in Seville, Spain. The

aim was to control all trade from the

-Approve all voyages to the Caribbean.

worked out ways to avoid paying the taxes.

Ferdinand and Isabella needed to establish

Spanish control over exploration and discovery in the New World.

-Every ship sailing to the Caribbean had to leave from Cadiz, Spain and had to register

with the Spanish. -Anyone could live in the Indies freely. If the discovered gold, 2/3 had to go to the Spanish

government, 1/3 could be kept by the discoverer. 1/10 of all other products had to be sent to Spain. -1/10 if all cargo carried by ship sailing to the New World had to be Spanish.



Year 11 History: 1. Spain reaches the New World, c1490-1512



| | | | 1001 11 1 | 1113001 y 1 | zi opam | reaches the real trong, ex- | 130 1 | J12 | | | <u></u> | | | |
|---|---|---|--|--|------------------------|--|-------------------------|--------------------------------|--|---|-----------------------------------|--|--|--|
| | | | | W | hy did Spair | agree to sponsor Columbus? | Col | lumbus' Firs | t Voyage 1492 | | | | | |
| Spain c1490: exploration, religion and ambition | | | Christianity | , | | | | | | | | | | |
| Most of Europe wa The Spice Trade wi | the world was round as mapped ith the East Indies was | | FIN | Cinistianity | | | | nding ships and crew | | | | | | |
| | were rivals – both ea route to the East | 4 | | Priest | | | | alry at sea | | | | | | |
| | , | | H HOUSE | Status | | | | Possible | | | | | | |
| - Spread Christianity | to new lands | | | | | | | Mutiny Quarrels | | | | | | |
| Problems in the Bahar | | na too small | | Wealth | | | ' | Land | | | | | | |
| Disappearance of Pinta | Wrecking of Santa Maria | to take all | | | | | | Luna | Effects of Span | ish Settlements | | | | |
| | <u> </u> | ew to Spain | | | | | 1 | <u> </u> | Effects of Span | ish Settlements | | | | |
| | Decision to leave men | | | Colu | ımbus' retur | n to Spain 1493 | 2 | | | | | | | |
| Taking goods and | | ipping Santa | 4 th March 1493 Co and meets King | | | The role of the pope The Pope gives Isabella and Ferdinand his | 3 | | | | | | | |
| equipment from the Santa | | Maria of timbers | | · | | support for | 4 | | | | | | | |
| Maria | | | | | | · | 5 | | | | | | | |
| | La Navidad built | | | <u>Rivalry with Portugal</u> King John believed he had | | | | | | Imperial Policy towards the Caribbean | | | | |
| | | | | led to | | Columbus was given | | oortance of Sa ecame | nto Domingo of Spanish | Establishment of a monopoly In 1503, the Casa de Contractac | ion (House of | | | |
| Impact (| of contact with the Na | atives | | <u></u> · | | | -Wi imp | ressive stone | squares surrounded buildings | Trade) was established in Seville aim was to control all trade fror Caribbean. Powers included: | m the | | | |
| Gold, cotton and tobacco | Tainos and Caribs | Incident at Samana | On 7 th June an a | | | ordesillas 1494 | | e building hou | where rules were issued | -Approve all voyages to the Carl -Collect up to date trade routes -Collect taxes. | | | | |
| Natives wore | Tainos – considered | On way back to | | imaginary line was drawn from theto theto the All lands to the west were for Spain. Lands to the east were for | | | -Co | urts were esta | blished to | -Control who travels to the Indies. However, there was smuggling and people | and people | | | |
| but Spain – Samana, would not tell the allowed Columbus Haiti. Men went | | Portugal. Columbus as governor | | | 1 | | | worked out ways to avoid payin | g trie taxes. | | | | | |
| where it | to build La Navidad, found at San Salvador. | ashore and found heads and | La Navidad and I | sabela _ | | | | holic Missiona | aries and Ia issued a | Regulation of Exploration Ferdinand and Isabella needed | to | | | |
| by the natives – it | Caribs – mainly | | La Navidad found b | usped to D | artholomous le | ft in charge when Columbus returned to Spain. | seri | ies of lians were to | : | -Every ship sailing to the Caribb | · | | | |
| could be spun into Spaniards sailing with Columbus quickly picked up the habit of | found east of the Bahamas, rthe Tainos | An exchange went wrong and They learnt that the natives | the ground on 28 th 1493. A new settlement v named Isabela. It fa Spaniards wanted adventure and gold | Nov H C vas S iiled as C | de built | ned into problems – Tainos and coperating. by giving Spanishand | -Tai Rep a wei | re sent to stop | Spain about thes. Dominicans the Spaniards | discovered gold, 2/3 had to go t government, 1/3 could be kept | f the to the Spanish by the | | | |
| | | | Columbus went exp and found Jamaica. returned to Haiti in September 1494. | oloring _ He S | ns on eptember 1500 | both nats ands.) – Bobadilla sent to take over from Columbus, ted and sent back to Spain in chains. | sho | cked at the mi | streatment of natives. | discoverer. 1/10 of all other probe sent to Spain1/10 if all cargo carried by ship New World had to be Spanish. | | | | |



Year 11 Religious Education: Peace and Conflict



| A. C | an you define these key words? |
|----------------|---|
| Key word | Key definition |
| Forgiveness | Pardoning someone for wrongdoing |
| Holy War | A war that is fought for religious reasons, usually backed by a religious leader |
| Just War | A Christian theory that asks whether a war is fought justly |
| Justice | Bringing about what is right and fair, according to the law or God's will or moral values |
| Pacifism | A belief that all forms of violence are wrong, commonly held by Quakers |
| Conflict | A serious disagreement |
| Jihad | The struggle to defend against that which threatens Islam/ the internal struggle to defend against temptation that might lead you away from God |
| Protest | A public expression of disapproval, often in a big group, can be peaceful or violent |
| Reconciliation | Restoring a elationship after conflict |
| Retaliation | Deliberately harming someone as a response to them harming you |
| Self-Defence | Protecting yourself or others from harm |
| Terrorism | Using violence in order to further a political or religious message and to achieve an aim |

What we are exploring this term: Pacifism . Protest. Terrorism. Weapons of mass destruction Just war

Is violent protest or terrorism acceptable?

- 1. A small minority of Christians may say yes if it truly brings an end to sufferinglove thy neighbour and 'free the oppressed'
- 2. A small minority of Muslims may agree due to the duty of jihad to defend the faith against true oppression.
- 3. A humanist may agree in a rare occasion if it truly had the best consequences for humanity as a whole 4. Hindus may point to their warrior class to
- justify a god given right to fight if needed

- 1. Most Christians consider terrorist acts of violence to be wrong, as Jesus did not accept violence. He said 'put your sword pack in its place' when his disciple tried to protest against his arrest.
- 2. Muslims do not agree with terrorism because terrorist acts of violence are considered to be wrong and against the wishes of God, especially as the victims are usually innocent people. There is no justification for terrorist acts in the teachings of Islam-Qur'an says that innocents much not be harmed.
- 3. Humanists might say that it does not help human wellbeing as it created disorder and fear. As such the consequences are rationally seen to be not worth it.
- 4. Hindus might argue that all violence is wrong (Ahimsa) as it causes bad karma and keeps us in the cycle of samsara

| Ε | Is pacifism wrong? Yes | No |
|---|--|---|
| | The Muslim duty of Jihad suggests pacifism can be wrong Christians are called to 'free the oppressed' and 'protect the weak and needy Humanists may argue that pacifism is not reasonable or realistic in a world of violence and may not help humanity protect each other | 1. It works- see Ghandi and Martin Luther King 2. Christians believe 'blessed are the peacemakers' 3. Muslims believe that greater Jihad is the struggle to defend the faith against the internal struggle to fall from the right path 4. Innocent people should not be harmed in all religions and pacifism is the only way to truly ensure this |

| D | What are the rules of the just war theory? | Can just war theory make war fair? | |
|---|--|--|--|
| | 1. There must be a just cause such as to defend 2. Intentions must be to do good and overcome evil 3. War must be started by legitimate authority 4. Innocents must not be harmed 5. Force and damage must be proportionate to the good done by the war 6. War must be the last resort 7. There must be a reasonable chance of success | Yes as it protects innocents Yes as it allows us the right to self defence Yes as it has to be the last resort so it is really is the only option left It will mean the war is for a good/fair reason and not pointless greed It means nuclear weapons can't be used | 1. No as innocents will always be harmed in war 2. A 'legitimate' authority could still be corrupt 3. You never know the harm of war until many years later so you can't calculate whether it is proportionate 4. You cannot know whether it will be successful until you have fought it 5. For success someone will have to use a greater force so the 'proportionate ' rule will never be followed |

| В. | Religious and non religious beliefs about weapons of mass destruction |
|----|---|
| 1 | It is wrong to damage the environment which is God's perfect creation. It would be a form of blasphemy to destroy God's Sacred work. |
| 2 | They hurt many innocent people and this is against all religious teachings. Lif e is a sacred God given gift and only God has the right to take life. |
| 3 | For humanists, if their use means we can end more human suffering than the weapons cause, then there might be a possible circumstance in which they could be deemed acceptable. |



Year 11 Religious Education: Peace and Conflict

What we are exploring this term: Pacifism . Protest. Terrorism. Weapons of mass destruction Just war



| Α. | | n you define these key words? | VVI | nat w | ve are exploring this term: Pacifish . Prote | est. Terro | ism. weapons of mass destruction Just war | |
|------------|----------|--|---------|-------|--|------------|---|--|
| Key wo | | Key definition | С | Is | violent protest or terrorism acceptable? | | | |
| Forgiven | 1. | | 1. | | | | | |
| Greed | | | | | | | | |
| Holy Wa | r | | | 2. | | 2. | | |
| Just War | | | | | | | | |
| Justice | | | | 3. | | 3. | | |
| Pacifism | | | | | | | | |
| Conflict | | | | 4, | | 4. | | |
| Jihad | | | | | | | | |
| | | | Е | Is | s pacifism wrong? Yes | | No | |
| Protest | | | | | | | | |
| Reconcili | ation | | | 1 | l. | | 1. | |
| Retaliatio | on | |] 2 | | 2. | | 2. | |
| Self-Defe | ence | | | | | | 3. | |
| Terrorisn | n | | | 3 | 3. | | 4. | |
| | | | | | | | | |
| D | | re the rules of the just war theory? | | | Can just war theory make war fair? | | | |
| | 1. 2. | | | | 1. | | 1. | |
| | 3. 4. | | | | 2. | | 2. | |
| | 5. 6. | | | | 3. | | 3. | |
| | 7. | | | | 4. | | 4. | |
| | | | 5. | | 5. | | | |
| В. | Religiou | us and non religious beliefs about weapons of ma | ss de | struc | ction | | | |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |



Year 11 Religious Education: Peace and Conflict



| - | |
|--|--|
| Year 11 RE Christianity Quotes: Peace and Conflict | |
| "Obey the authorities, for God is the one who put it there. All governments have been placed in power | Jesus said he was sent to 'free the oppressed' |
| by God." Romans 13:1 | Old Testament |
| | 'let justice roll down like the waters, and righteousness like an ever-flowing stream.' |
| Genesis 9:5-6 | But I tell you, do not resist an evil person. If anyone slaps you on the right cheek, turn to them the other |
| From his fellow man I will require a reckoning for the life of man. "Whoever sheds the blood of man, by | cheek also. |
| man shall his blood be shed, for God made man in his own image." | |
| Beat your swords into ploughshares, and their spears into pruning hooks: nation shall not lift up sword | Old testament: 'When thou goest out to battle against thine enemies, be not afraid of them: for the |
| against nation, | LORD thy God is with thee' |
| Christianity Quotes For religion, peace and conflict | |
| 'And the soldiers likewise demanded of him, saying, And what shall we do? And Jesus said unto | Thou shalt not kill. |
| them, "Put your sword back into its place; for all those who live by the sword, die by the sword." | |
| Luke 6:27 | New testament |
| "But I say to you who hear, Love your enemies , do good to those who hate you, | Blessed are the peacemakers: for they shall be called the children of God. |
| The catholic church and Church of England accept war under the conditions of just war theory. | Many weapons destroy the environment eg nuclear weapons. The quote below can be applied to this |
| the canonical and and an array array and accept that array are contained or jacot that array arr | issue; |
| | 'You shall not defile the land in which you live, in the midst of which I dwell' |
| Jesus violently protested when 'he made a whip out of cords, and drove all from the temple courts, he | The Lord will fight for you; you have only to be still.' |
| scattered the coins of the money changers and overturned their tables ' | |
| 'protect the weak and needy' | Peace alone, not war, is holy (said by Pope Francis in the 2000s) |
| Year 11 RE Christianity Quotes: Peace and Conflict | |
| " the authorities , for God is the one who put it there have | Jesus said he was sent to ' the oppressed' |
| been" | Old Testament |
| Romans 13:1 | 'let, and righteousness like an |
| | ever-flowing stream.' |
| Genesis 9:5-6 | But I tell you, do not on the right cheek, turn to them the |
| From his fellow man I will require a reckoning for the life of man. "Whoever sheds the blood of man, | other cheek also. |
| for God made man" | |
| Beat your into into shall | Old testament |
| not, | 'When thou goest out to battle against thine enemies, be not afraid of them: for |
| | ' |
| Christianity Quotes For religion, peace and conflict | |
| 'And the soldiers likewise demanded of him, saying, And what shall we do? | Thoukill. |
| And Jesus said unto them, "Put your sword; for those who | |
| by the sword,by the sword | |
| Luke 6:27 | New testament |
| "But I say to you who hear, Love your enemies , do good to those who hate you, | are the peacemakers: for they shall be called theof God. |
| The catholic church and Church of England accept war under the conditions of just | Many weapons destroy the environment eg nuclear weapons. The quote below can be |
| war theory. | applied to this issue; |
| | 'You shall not in which you live, in the midst of which I dwell' |
| Jesus violently protested when 'he made a whip out of cords, and drove all from the | The Lord willfor you; you have only to be |
| temple courts, he scattered the coins of the money changers and overturned their tables | The Lord Will Imministration you, you have only to be imministration |
| | |
| 'protect theand needy' | alone, not war, is holy (said by Pope Francis in the 2000s) |



В.

C.

GCSE Unit 3 SPANISH Knowledge organiser. **Topic Free Time Activities**

- 3.1F ¿Qué haces en tu tiempo libre? What we are learning this term:
 - a veces

 - Talking about your plans for the weekend
- Talking about special occasion meals D. E. Extending what you can say about sport
- Talking about sport in the world

Talking about free time

Talking about eating out

- 6 Key Words for this term
- disfrutar 4. campeones 2. 5. formentar jugar 3. los deportes
 - 6. a selección
 - 3.1G ¿Qué te gusta hacer?
- aburrido/a boring
- bailar to dance cantar
- to sing el cine cinema
- de vez en cuando from time to time, occasionally entretenido/a entertaining
- challenging estimulante
- jugar to play (game, sport) to read
- leer libre free odiar to hate
- la película film practicar to practise salir to go out
- la tarde afternoon, evening el teclado kevboard
- tocar to touch, to play(an instrument) to see, watch ver
- - 3.3G ¿Haces deporte? active in the open air,

to ride a horse

- activo/a al aire libre outdoors ayudar to help el baloncesto basketball
- el campo countryside, playing field
- la cancha court los deberes homework la equitación horse riding el estadio stadium

montar en bicicleta to ride a bike

montar a caballo

- bastante
 - each, every cada to have an evening meal cenar charlar to chat el coro choir

sometimes

quite

- descansar to rest los dibujos animados cartoons el documental documentary
 - el fin de semana weekend genial great las noticias news
 - nunca never ocupado/a occupied, busy policíaco/a police, detective, crime
 - (adj.) poner to put por lo general in general
 - alwavs siempre el teatro theatre la telenovela soap opera terminar to finish
- time el tiempo todo/a/os/as all. every tonto/a silly, stupid la vez time, occasion
- 3.2G Comer y Beber
- el (fem.) agua (mineral) (mineral) water beber to drink
- el bocadillo sandwich la carne meat

la cena

an evening meal

cenar

comer

la comida

desayunar

después

el helado

el huevo

el jamón

la leche

las legumbres

la mantequilla

la mermelada

las patatas fritas

la manzana

el desayuno

to eat

breakfast

afterwards

ice cream

egg

ham

milk

pulses

butter

apple

jam, marmalade

chips, fries

to have supper / to have

lunch, food, meal

to have breakfast

- evening meal
- el atún la barra

Salir

Salgo

Sales

Sale

I go out

You go out

He/she goes out

Salimos

Salen

We go out

They go out

el pescado

el pollo

el postre

el queso

la sopa

el té

tomar

drink)

la tortilla

el vaso

la tostada

las verduras

los calamares

los champiñones

la cebolla

el cerdo

la cerveza

el chorizo

la chuleta

el cordero

las gambas

el gazpacho

los quisantes

el jamón serrano

las iudías verdes

el filete

la fresa

el perrito caliente

To go out

- el bacalao el bistec
- tuna cod loaf steak

squid

onion

pork

beer

chop

lamb

fillet

chorizo

mushrooms

strawberry

cured ham

areen beans

chilled tomato soup

prawns

peas

- 3.2F Vamos a comer fuera
- vegetables
- to take, to have (food,
- dessert, pudding
- They play
- Juegan

Key Verbs

Jugar

To play

Juego

I play

Juega

Juegas

You play

He/she plays

To go

Vov

I go

Vas

Va

You go

s/he goes

Vamos

They go

They go

hot dog

chicken

cheese

omelette

toast

glass

soup

tea

Van

3.2G Comer y Beber

fish

- Jugamos We play
- s/he does

aburrido/a

agradable

al aire libre

outdoors

la batería

la canción

dar un paseo

occasionally

desafiante

divertido/a

emocionante

el concurso

(contest)

contestar

el ejercicio

el entrenamiento

durante

entrenar

el equipo

este, esta

el jugador

el miembro

el partido

probar

mañana

el esquí

ganar

de vez en cuando

We do

They do

Hacer -

Hago

Haces

You do

Hace

I do

to do/make

- Hacemos Hacen
- Tocamos We play Tocan

Tocar

Toco

I play

Tocas

Toca

You play

He/she plays

To play (ins)

- They play 3.1H Hablando del tiempo libre y de
 - los planes boring
 - pleasant
 - in the open air, drums song
 - to go for a walk from time to time.
 - challenging fun
 - exciting
- 3.3F ¿Qué deportes harás? el alpinismo rock climbing cansado/a tired la carrera
 - race

 - competition
 - to answer during exercise training
 - to train team
 - skiing this
 - to win player tomorrow

member

to try, to test

match

| 2 10 5 | GCSE Unit 3 SPANISH Knowledge organiser. Topic Free Time Activities | | | Key Verbs | | | | | | ₽ ® \$ |
|---|--|---|--|---|---|-----------------------|---|--|--|---------------|
| What we are learning the | <u> </u> | _ | ces en tu tiempo libre? | Salir ———— | <u>lr</u> | To play | | Hacer – to do/make | Tocar | |
| A. Talking about free time B. Talking about your plans for the weekend | | a veces bastante cada | | I go out | Voy Juego I play | | | Hago | l play | _ |
| C. Talking about eating D. Talking about speci E. Extending what you | | | to have an evening meal to chat | You go out | You go | Juegas ———— | | Haces You do | Tocas You play | , |
| F. Talking about sport 6 Key Words for this to | | choir descansar los dibujos animados | | Sale He/she goes out | Va s/he goes | Juega He/she plays | | s/he does | He/she p | plays |
| 1. disfrutar | 4. campeones 5. formentar | el documental | weekend great | Salimos | They go | Jugamos We play | | Hacemos | Tocamos | S |
| jugar los deportes | 6. a selección | las noticias nunca | | Salen | Van They go | They play | - | Hacen They do | They play | ıy |
| 3.1G ¿Qué te aburrido/a | e gusta hacer? | ocupado/a policíaco/a | | | Comer y Beber | | | 1H Hablando del tiempo libre y de | | e y de |
| bailar to sin cinem de vez en cuando entretenido/a challe to pla leer libre odiar la película | = | el teatro la telenovela el tiempo todo/a/os/as | in general always to finish silly, stupid time, occasion | el perrito caliente el pescado el pollo el té drink) la tortilla la tostada el vaso | dessert, pudo cheese soup to take, to ha | _ | outdo la bat la car de ve | ido/a lable libre iors ería nción z en cuando sionally iante | in the open a | - valk |
| salir | noon, evening | | eral) | vegetables 3.2F Vamos a comer fuera | | | exciting 3.3F ¿Qué deportes harás? | | | s? |
| el teclado | uch, to play(an instrument) | beber la carne | sandwich evening meal | el atún el bacalao | loaf steak | | el alp cansa la car | inismo _ ndo/a _ rera _ | (c | |
| 3.3G ¿Haces de | eporte? | an evening meal | to have supper / to have | los calamares la cebolla | | - | conte | star ₋ | during | |
| outdoors ayudar el baloncesto | e open air, tryside, playing ework | la comida desayunar el huevo el jamón la leche las legumbres | breakfast afterwards ice cream butter | el cerdo el chorizo la chuleta el filete el gazpacho los guisantes | lamb strawberry prawns | _ | entrei el equ el esc este, ———————————————————————————————————— | tembro | exercise training to win blayer tomorrow | - |
| | e a horse e a bike | la mermelada | apple chips, fries | | cured ham green beans | | | _ | to try, to test | |

KS4 FOOD AND NUTRITION KNOWLEDGE ORGANISER T1

Name

Date

Macronutrients, fibre and water

Macronutrients

Macronutrients provide energy. The macronutrients are:

- · carbohydrate;
- protein;
- fat

Macronutrients are measured in grams (g).

Alcohol

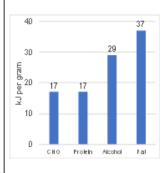
Alcohol is not considered a <u>nutrient</u>, but is a source of energy in the diet.

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

Energy from food

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

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



Protein

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

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

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

Recommendations

· 0.75g/kg bodyweight/day in adults.

Sources:

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

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

Protein complementation

Different food contains different amounts and combinations of amino acids.

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

Examples are:

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

Carbohydrate

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

These three types are:

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

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

Starchy carbohydrate is an important source of energy.

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

Recommendations

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

Fibre

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

Dietary fibre helps to:

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

Fat

Sources of fat include:

- saturated fat:
- · monounsaturated fat:
- polyunsaturated fat.

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

Recommendations

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

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

Sources:

Saturated fat: fatty cuts of meat; skin of poultry; butter; hard cheese; biscuits, cakes and pastries; chocolate. Monounsaturated fat: edible oils especially olive oil; avocados; nuts. Polyunsaturated fatty acids: edible oils especially sunflower oil; seeds; margarine; spreadable fats made from vegetable oils and oily fish.

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

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



Key terms

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

Essential amino acids: 8 of the different amino acids found in proteins from plants and animals that have to be provided by the diet. Macronutrients: Nutrients needed to provide energy and as the building blocks for growth and maintenance of the body.

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

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

Hydration

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

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

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

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

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



KS4 FOOD AND NUTRITION KNOWLEDGE ORGANISER T1



Micronutrients

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

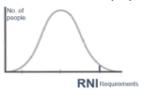
There are two main groups of micronutrients:

- vitamins:
- · minerals and trace elements.

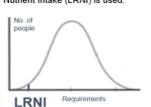
Micronutrients are measured in milligrams (mg) and micrograms (µg) with 1mg = 0.001g and 1µg = 0.001mg.

Micronutrient recommendations

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



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



For more information, go to: https://bit.ly/36KUnji Micronutrient recommendations People have different requirements for each micronutrient, according to their:

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



Vitamins

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

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

Vitamins are grouped into:

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

Minerals

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

The body requires different amounts for each mineral.

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

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

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

Key terms

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

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

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

Vitamin D

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

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

Vitamin D_3 is also formed by the action of sunlight. Different to most vitamins, the main source of vitamin D is synthesis in the skin following exposure to sunlight. The wavelength of UVB during the winter months in the UK does not support vitamin D synthesis.



Frayer Model Key Words

Protein A macronutrient that is essential to building muscle mass.

Fat A macronutrient which supplies the body with energy.

Carbohydrates A macronutrient that is required by all animals. It is made in plants by the process of photosynthesis.

Vitamin Vitamins are split into two categories, water soluble and fat soluble. Fat soluble vitamins (A, D E, and K) dissolve in fat. Water soluble vitamins (the B group and vitamin C) dissolve in water.

Nutritional Providing or obtaining the food necessary for health and growth.

Energy The strength and vitality required for sustained physical or mental activity.

KS4 FOOD AND NUTRITION KNOWLEDGE ORGANISER T1



QUIZ

Macronutrients

Macronutrients provide energy. The macronutrients are:

- .
- .
- •

Macronutrients are measured in...... ().

Micronutrients are needed in the body inamounts. They do not provide......, but are required for a number of important......in the body.

There are two main groups of micronutrients:

- .

Key terms

Dietary reference values:

Essential amino acids:

Macronutrients:

Protein complementation:

Reference Intakes:

Protein

Made up of building blocks called

There are amino acids found in protein.
Eight amino acids have to be provided by the diet (called...... amino acids).

Sources:

Animal sources:

Plant sources:

Vitamins

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

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

Vitamins are grouped into:

Protein complementation

Different food...

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

Examples are:

- .
- •
- :
- •
- .

Carbohydrate

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

These three types are:

- -
- -

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

Starchy carbohydrate is an important source of energy.

Starchy foods -

Recommendations

- Total carbohydrate around......of daily food energy.
- Fibre is a term used for plant-based carbohydrates that are not digested in the small intestine (30g/day for adults).

Fat

Sources of fat include: saturated fat; monounsaturated fat; polyunsaturated fat.

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

Recommendations

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

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

Sources:

| Key terms |
|-----------------|
| Micronutrients: |

.

Lower Reference Nutrient Intake (LRNI):

Reference Nutrient Intake (RNI):



DESIGNING AND MAKING PRINCIPLES

PRIMARY DATA

Information and data that are gathered from Primary sources is usually more specific to a design task as the investigation can be tailored to the design brief and/or design specification:

Primary Sources include

- Interviews User/Client
- Questionnaire Target market
- Focus groups Target market
 - Product Analysis
 - Material testing

SECONDARY DATA

Secondary sources of information use data already found by other people or organisations that are relevant:

Secondary Sources include

- Books
- Magazines
- Websites
- Statistics
- News radio
- Television
- Reviews

MARKET RESEARCH

Gathering Market Research is an important exercise an any design process, by conducting market research you can find out whether your ideas are commercially viable and make the necessary amendments to your approach to suit the needs of the user.

INTERVIEWS AND QUESTIONNAIRES

Asking question sin the form of focus groups allows you to gather as much data as needed from a range of people. You may need to conduct a few interviews through out the design and manufacture of the product. Focus groups are often recorded and getting the user group to interact with prototypes to give feedback.

PRODUCT ANALYSIS

This involves looking at what is already available on the market and critically analysing to see how it performs functionally and aesthetically as well as how commercially viable it is. Reviews help pinpoint good and bad point to allow the designer to develop their idea

Anthropometric data

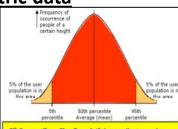
Anthropometric data is

space or product

'The study of human measurements'

Anthropometric data is used to ensure the products and environments are the correct Size for the intended user.

The data is split in to **3** categories
The 5th percentile (smallest)
The 50th percentile (mid)
The 95th percentile (largest)
Opposite are examples of the various
percentiles could be used to ensure the
maximum amount of people can use the



5th Percentile – Fire Guard: If the smallest peoples fingers cant fit through neither can the mid or high. 50th Percentile – Public Bench: To ensure it's not too short and not too high for the average person to sit. 95th – Door Frame: If the tallest person can fit through then so can the smallest and mid.

DESIGN BRIEF

The design brief is written in consultation with the user/client.

The deign brief should outline the **Problem, Need** and **Design**Opportunity. Set out your design brief in

- Project name
- Problem/context
- Task and time-frame

What is the aim of the design task



DESIGN SPECIFICATION

The design specification is a list of criteria that your design and final product must meet in order to be successful.

Your design specification points should be carefully thought out and justified. Specification points should include:

- User requirements
- Aesthetic requirements
- Function
- Size



Ergonomics

Take a look around your environment now. Everything that you can see that has ever been designed has been designed to fit the end user. From the handle of a coffee mug, to the shape and the size of the room that you are in

Ergonomics means special attention has been given to the design to make sure it is the best possible fit for the user. This is where they take to anthropometric data into consideration

USER CENTRED DESIGN

User centred design focuses specifically on the wants and needs of the end user. The end user is consulted at every stage of the design process to gather feedback on how they think the product is progressing

COLLABORATION

Working with others is a good way to get ideas flowing. By working with others in the 'design team' you can maximise initial ideas.

Designers can feed off the ideas of colleagues and inspire others around them

| Key word | Definition |
|---------------|--|
| Analysis | Product analysis means asking questions about a product and forming answers. |
| Summary | A brief statement or account of the main points of something |
| Specification | A design specification is a detailed document providing a list of points regarding a product or process |
| Perspective | The art of representing three-dimensional objects on a two-dimensional surface to give the right impression of their height, width, depth, and position in relation to each other. |
| Modelling | A simple mock-up of an idea using basic materials to show an idea |
| Iterative | A flexible way of designing through reflection and evaluation then redesign |

ITERATIVE DESIGN

Iterative design involves constant refining and development of ideas. Design, evaluate, Re-design







MATERIAL PROPERTIES

Strength - the ability of a material to withstand compression, tension and **Shear**, e.g., in woven fabrics cotton isn't as strong as wool when pulled **Hardness** - the ability to withstand impact without damage, e.g., pine is easier

to dent with an impact than oak; therefore, oak is harder

Toughness - materials that are hard to break, or snap are tough and can absorb shock, e.g., Kevlar in bulletproof vests is a very tough material

Malleability - being able to bend or shape easily would make a material easily malleable, e.g., sheet metal such as steel or silver is malleable and can be hammered into shape

Ductility - materials that can be stretched are ductile, e.g., pulling copper into wire shows it is ductile

Elasticity - the ability to be stretched and then return to its original shape, e.g., elastane in swimming costumes is a highly elastic material

SURFACE FINISHES

Finishing is usually one of the last stages of a making project. It will usually involve sanding and applying a surface coating to **protect** your material and **improve its visual appearance**

Some examples of finishes are:

Paint, Stain, Varnish, Oil, Wax, Polish & Dip coating

THE 6R'S

The term 'the 6 Rs' can be applied to the design of new products or when a product is finished with, used up or no longer wanted. Here are some questions to prompt 6-Rs thinking:

Reduce - Can the amount of material used be reduced? Can it be bought locally to reduce product miles?

Reuse - Can the material be reused for another purpose once a product is finished with?

Recycle - Can the material be disposed of correctly so that it can be recycled?

Rethink - Can the way a product is made be redesigned so that less material is used?

Refuse - Refusing to use material could be a

consideration; could a material that is sustainable be used instead? **Repair** - When a product is broken, can

it be repaired rather than discarded?



TOLERANCE

Tolerance is the amount of 'error' that is allowed for a specific component.

A part is to be produced for a TV set. It is intended to be **56.1mm** long.

The part has tolerance 56.1 + 0.4mm

This means that the largest acceptable size for the part is 56.1 +0.4 = 56.5mm

The smallest acceptable size for the part is **56.1mm** long.

The smallest acceptable size for the part is 56.1 -0.4 = 55.7mm



QUALITY CONTROL

In manufacturing, quality control is a process that ensures customers receive products free from defects and meets their needs. went down the wrong way, it can put consumers at risk. For example, the recent defect found in takata airbags resulted in the biggest automotive recall in history. The recall includes almost 69 million airbag inflators.

Major recalls like these can be prevented through effective quality control in manufacturing. Customers expect and demand high quality products. When customers receive quality products you will:

- increase customer loyalty
- game repeat business
 - game new customers from referral/reviews
- improve safety
- contribute to overall positive branding of your product

Manufacturers with quality control procedures in place are far less likely to face product recalls or place customers at risk from poorly made products.

CAD

There are many benefits to using CAD, for products produced as one-off prototypes right up to thousands of items made using mass production. Listed below are the advantages of CAD.

- Increases productivity bracket faster than manual workers closed bracket whilst decreasing errors.
- Often higher quality or more complex designs can be achieved .
- Designs can be edited/reused easily
- Designs can be easily understood
- CAD files can be easily shared
- No physical space required saves time and improves accuracy
- Links to CAM seamlessly

SCALES OF PRODUCTION

ONE OFF: when you make a unique item **BATCH:** when you make a few/set amount **MASS:** when you make thousands

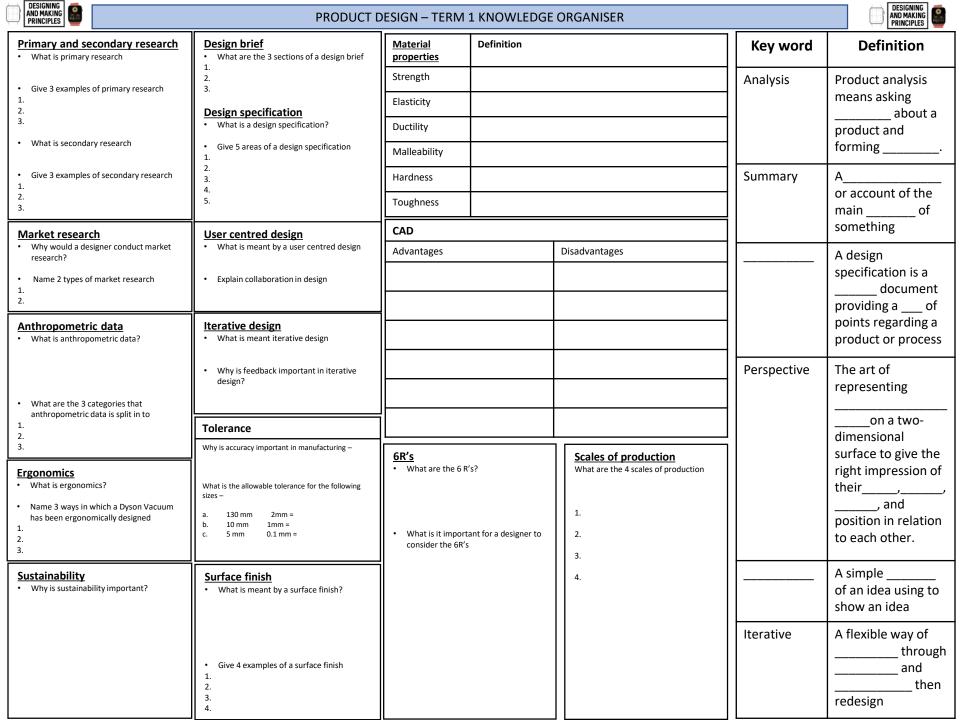
CONTINUOUS: open ended production

SUSTAINABILITY

Our planet has to provide all of our basic human needs, such as food, shelter and warmth. designers know how a much better understanding of which materials are sustainable and which are not. The general principle is that resources fall into two categories

Finite resources – are ones which are limited supply or cannot be reproduced

Non-finite resources – I ones which are in abundant supply unlikely to be exhausted







MATERIAL PROPERTIES

Strength - the ability of a material to withstand compression, tension and **Shear**, e.g., in woven fabrics cotton isn't as strong as wool when pulled **Hardness** - the ability to withstand impact without damage, e.g., pine is easier

to dent with an impact than oak; therefore, oak is harder

Toughness - materials that are hard to break, or snap are tough and can absorb shock, e.g., Kevlar in bulletproof vests is a very tough material **Malleability** - being able to bend or shape easily would make a material easily

malleable, e.g., sheet metal such as steel or silver is malleable and can be hammered into shape **Ductility** - materials that can be stretched are ductile, e.g., pulling copper into

wire shows it is ductile

Elasticity - the ability to be stretched and then return to its original shape, e.g., elastane in swimming costumes is a highly elastic material

SURFACE FINISHES

Finishing is usually one of the last stages of a making project. It will usually involve sanding and applying a surface coating to **protect** your material and **improve its visual appearance**

Some examples of finishes are:

Paint, Stain, Varnish, Oil, Wax, Polish & Dip coating

THE 6R'S

The term 'the 6 Rs' can be applied to the design of new products or when a product is finished with, used up or no longer wanted. Here are some questions to prompt 6-Rs thinking:

Reduce - Can the amount of material used be reduced? Can it be bought locally to reduce product miles?

Reuse - Can the material be reused for another purpose once a product is finished with?

Recycle - Can the material be disposed of correctly so that it can be recycled?

Rethink - Can the way a product is made be redesigned so that less material is used?

Refuse - Refusing to use material could be a

consideration; could a material that is sustainable be used instead? **Repair -** When a product is broken, can

Repair - When a product is broken, can it be repaired rather than discarded?



TOLERANCE

Tolerance is the amount of 'error' that is allowed for a specific component.

A part is to be produced for a TV set. It is intended to be **56.1mm** long.

The part has tolerance 56.1 + 0.4mm

This means that the largest acceptable size for the part is 56.1 +0.4 = 56.5mm

The smallest acceptable size for the part is **56.1mm** long.

The smallest acceptable size for the part is **56.1-0.4 = 55.7mm**



QUALITY CONTROL

In manufacturing, quality control is a process that ensures customers receive products free from defects and meets their needs. went down the wrong way, it can put consumers at risk. For example, the recent defect found in takata airbags resulted in the biggest automotive recall in history. The recall includes almost 69 million airbag inflators.

Major recalls like these can be prevented through effective quality control in manufacturing. Customers expect and demand high quality products. When customers receive quality products you will:

- increase customer loyalty
- · game repeat business
- game new customers from referral/reviews
- improve safety
- contribute to overall positive branding of your product

Manufacturers with quality control procedures in place are far less likely to face product recalls or place customers at risk from poorly made products.

CAD

There are many benefits to using CAD, for products produced as one-off prototypes right up to thousands of items made using mass production. Listed below are the advantages of CAD.

- Increases productivity bracket faster than manual workers closed bracket whilst decreasing errors.
- Often higher quality or more complex designs can be achieved .
- Designs can be edited/reused easily
- Designs can be easily understood
- CAD files can be easily shared
- No physical space required saves time and improves accuracy
- Links to CAM seamlessly

SCALES OF PRODUCTION

ONE OFF: when you make a unique item **BATCH:** when you make a few/set amount **MASS:** when you make thousands

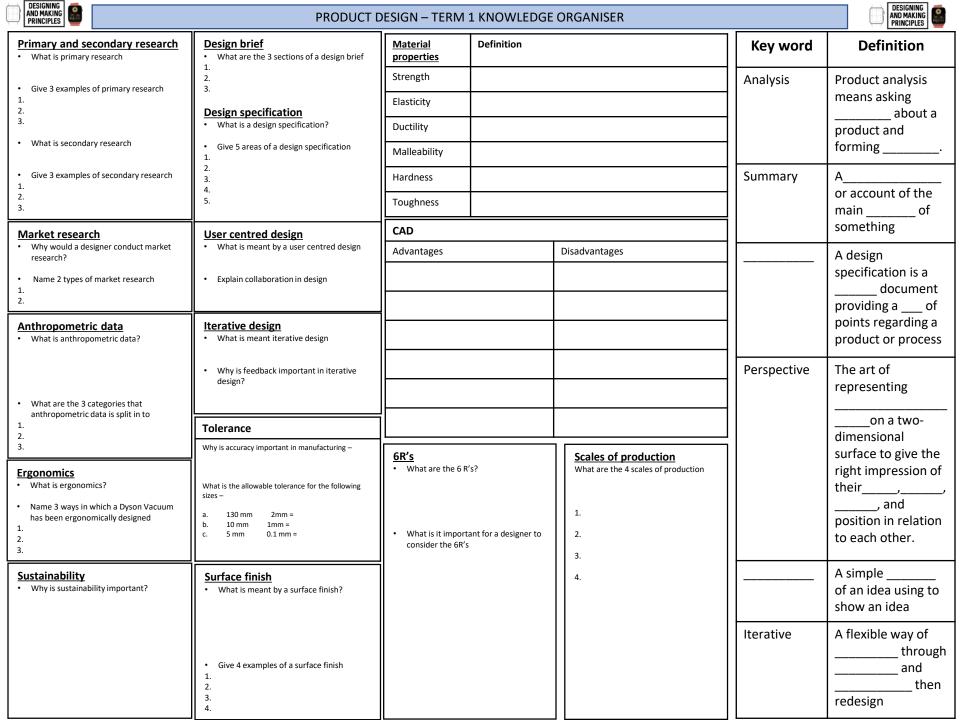
CONTINUOUS: open ended production

SUSTAINABILITY

Our planet has to provide all of our basic human needs, such as food, shelter and warmth. designers know how a much better understanding of which materials are sustainable and which are not. The general principle is that resources fall into two categories

Finite resources – are ones which are limited supply or cannot be reproduced

Non-finite resources – I ones which are in abundant supply unlikely to be exhausted



YEAR 11 BTEC DRAMA KNOWELDGE ORAGNISER - TERM 1

Frantic Assembly – https://www.youtube.com/user/franticassembly

Who are Frantic Assembly?

new theatre.

They aim to make their work accessible.

Formed in 1994. Frantic Assembly's beliefs are built on the notion of

Frantic Assembly is one of UK's leading contemporary theatre companies

collaboration. There is a great sense of ensemble work evident in all that they do

producing thrilling, energetic and uncompromising theatre constantly attracting





Other Shows by Frantic

I think We're Alone

The Unreturning

Pool No Water

Love Song

Little Dogs

Beautiful Burnout

Assembly:

2.

3.

4.

What we are learning this term:

- How to develop our physical and visual story telling techniques.
- The Frantic Assembly devising process through rehearsals.
- How to interpret the director's creative intention in A Curious Incident of a Dog in the Night-time.
- How to reflect, analyse and evaluate our development.

Key Words:

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

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

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

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

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

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

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

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

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

Narrative – the storyline and character's trajectory The story Motif – A symbolic movement that captures the essence of a character or moment Symbol - is something which stands for, or represents something else.

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

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

Expand your knowledge and understanding!

BBC Bitesize - https://www.bbc.com/bitesize/subjects/zbckjxs - covers everything from creating to evaluating, and lots of handy videos. Techniques, Practitioners, Video Links -

https://www.bgsperformingarts.com/drama.html Frantic Assembly https://www.youtube.com/user/franticassembly National Theatre - https://www.youtube.com/user/ntdiscovertheatre

| The accounted National Treatment projectors | |
|---|--|
| INCIDENT DOG | |

Key learning aims from Component 2

| INCIDENT DOG | |
|--------------|--|
| TIVIL TIVIL | |

A1: Development of physical, vocal and interpretative skills. Introduction to developing skills and techniques; participation in physical and visual story telling workshops. Exploration of: Chair Duets, Blind Hands, Round By Through, Push Hands, Fluff

Picking, Lifts.

Learning aim B: Apply skills and techniques in rehearsal and performance

Learning aim

techniques for

performance

A: Develop

skills and

B1: Interpretation of 45 minutes of A Curious Incident of a Dog in the Night-time through the use of physical and visual story telling. Application, through rehearsal, of Frantic Assembly physical and Visual storytelling techniques. Development of skills, techniques and interpretive skills leading to final performance in front of a live audience.



skills and techniques for performance Evaluation of development of skills, responding to teacher/peer feedback and observations, identifying strengths and areas for development, setting actions and targets for improvement, referring to professional working practices.

C1: Review own development of



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

Component 2 - Key focus

This component is designed to give students a practical overview of the skills, techniques and practices required for the discipline of drama. You will explore the techniques of Frantic Assembly and apply them to the play: A Curious Incident of a Dog in the Night-time. You will apply Frantic Assembly's building blocks for devising as well as their recognisable style to a 45 minute section of the play. Through a series of workshops and rehearsals you will explore the different scenes of A Curious Incident of a Dog in the Nightime as well as the direction's creative intention. Using the physical and visual story telling techniques of Frantic Assembly you will bring to life the many facets of Christopher's brain.



YEAR 11 BTEC DRAMA KNOWELDGE ORAGNISER - TERM 1

Frantic Assembly - https://www.youtube.com/user/franticassembly

for performance

and techniques

Learning aim B: Apply skills and techniques in rehearsal and performance

Learning aim C: Review own development and performance

| // | |
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What we are learning this term:

- How to develop our physical and visual story telling
- The Frantic Assembly devising process through

| rehearsals. C. How to interpret the director's creative intention in A Curious Incident of a Dog in the Night-time. D. How to reflect, analyse and evaluate our development. |
|---|
| Key Words: |
| Synchronisation – Physical & Visual Theatre - a form of |
| Chorus - those who perform |
| Soundscape – layeredAbstract – |
| Sequence – an order of |
| Naturalism - 'A slice of life' on stage. Naturalistic |
| Motivation - the |
| Thought-tracking - Actors |
| . This is a useful way of finding out |
| to other characters of the events they are experiencing. Other characters cannot hear the thought tracking, only the audience. Climax – is a play or a specific scene's point of |
| and drama Narrative – the s |
| e and The story Motif – A |
| that captures the essence of a character or moment Symbol – is something which stands for, or represents something else. Symbols -are often used in drama to |
| and remind the audience of the themes or issues it is discussing. Essence Machine – A |
| that combines symbolic movement and sound to capture the essence of a something – this could be anything, for example, a character, a place, a feeling. |
| Expand your knowledge and understanding! BBC Bitesize - https://www.bbc.com/bitesize/subjects/zbckjxs - covers everything from creating to evaluating, and lots of handy videos. Techniques Practitioners Video Links - |

| | Who are Fra | antic Assembly? | | | Other Shows by Frantic Assembly: |
|---------------------------------------|--|--|-----------------------------|-------------------------|----------------------------------|
| RIOUS ENT & DOG GHT-TIME | n. There is a They aim to Frantic Asse | .994, Frantic Assembly's b great sense ofe make their work a embly is one of UK's leadin hrilling, energetic and und | evident in all that the | ney do heatre companies | |
| Key learning aims from Component 2 | new theatre | : | | | |
| ing aim A: op skills | | | | Keywords linked to As | signment Brief |

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| | Keywords linked to Assignment Brief |
|------------------------|-------------------------------------|
| | |
| | |
| Physical skills | |
| | |
| Performanc e skills | |
| | |
| Reflect | |
| | |
| Analyse | |
| | |
| Apply | |

https://www.bgsperformingarts.com/drama.html Frantic Assembly https://www.youtube.com/user/franticassembly National Theatre - https://www.youtube.com/user/ntdiscovertheatre

| Component 2 – F | (ey focus |
|-----------------|-----------|
|-----------------|-----------|

This component is designed to give students a practical overview of the skills, techniques and practices required for the discipline of drama. You will explore the techniques of Frantic Assembly and apply them to the play: A Curious Incident of a Dog in the Night-time. You will apply Frantic Assembly's building blocks for devising as well as their recognisable style to a 45 minute section of the play. Through a series of workshops and rehearsals you will explore the different scenes of A Curious Incident of a Dog in the Nightime as well as the direction's creative intention. Using the physical and visual story telling techniques of Frantic Assembly you will bring to life the many facets of Christopher's brain.



Independent



| Wŀ | What we are learning during this unit: | | |
|----------------------------------|--|--------------------------|--|
| A. B. C. D. E. F. | Venues / Health and Safety / Security | | |
| 6 Key Words for this term | | | |
| 1 2 | Employment Major | 4 Responsibility 5 Union | |

6 Publishing

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

| ^ | Record Labels (pros and co | |
|----|----------------------------|-----|
| U. | Record Labels (pros and co | msi |

| A. | | Job Roles in the | e Music Industry |
|--------------|-------------|------------------|---|
| Key word | | | Key definition |
| ✓ | Musician | | Plays an instrument or voice |
| ✓ | Composer | | Writes music e.g. films |
| ✓ | Song | writer | Writes songs |
| ✓ | Recor | rd producer | Directs recording sessions |
| ✓ | Cond | uctor | Directs an orchestra / ensemble |
| \checkmark | Live S | Sound | Monitors sound at live events |
| | Techr | nician | Moves equipment /sets up |
| ✓ | Road | ie | Fixes stuff like guitars/drums |
| \checkmark | Instru | ıment | The boss of the artist/band! |
| | Techr | nician | Responsible for health/safety |
| \checkmark | Artist | ic Manager | Book recordings/H&S |
| \checkmark | Venu | e Manager | Sells tickets to live events! |
| ✓ | Studi | o Manager | Finds new talent to sign to |
| ✓ | Prom | oter / Marketer | labels |
| ✓ | A&R | | Records the music in studio |
| \checkmark | Sound | d Engineer | Plays in recordings or live |
| ✓ | Sessio | on Musician | shows |
| ✓ | Maste | ering Engineer | Perfects finished recording |
| ✓ | Manu | ıfacturer | Makes the CD's to sell |
| \checkmark | Musi | c Journalist | Writes about music / reviews |
| ✓ | Blogg | er/Vlogger | Blogs about music / reviews |
| \checkmark | Broadcaster | | E.g. Radio Presenters |
| \checkmark | Softw | /are | Codes musical software |
| | Progr | ammer | Mixes/plays live music |
| \checkmark | DJ | | Sells merchandise! |
| ✓ | Retail | ler | Gets finished CD's to shops to |
| ✓ | Distri | buter | sell (now also done online!) |
| ✓ | Stylis | t | Works on the band/artist image |
| ✓ | Accompanist | | Attends auditions, plays for a solo musician e.g. piano |

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

Venues/Health and Safety/Security

Large Venue = Arena Small Venue = school hall/pub



Health and Safety

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

Security

ID/Bags/Crowd Control



Unions/Agencies/Trade Bodies E.

Agencies



MCPS / PRS

Mechanical-Copyright Protection Society and the Performing Right Society. Collects royalties for musicians for physical formats like CD (MCPS) and live music (PRS)

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



Unions

Unions provide support for lots of people, they provide things like advice for freelancers on NI/TAX, handling disputes, and support in negotiating contracts

MU = Musicians Union



Equity

BECTU = Broadcasting Entertainment Cinematograph Theatre Union

Trade bodies



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

PLASA = Professional Lighting and Sound Association



Represents those who work/supply technologies

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

Publishing (pros and cons)

Major Self-Publishing

Remember: Publishing Company = Composition OWNERSHIP

Pros = good distribution, payment often upfront (in advance), marketing and promotion is good Cons = signed through an agent (which means they take a cut!), harder to get published when the company is huge, more editing done on your work so less control

Pros = no need for an agent, send work directly, done on social media, more in control of editing, stepping stone to a larger company Cons = less money, less marketing and promotion



Year 11 BTEC Music - Unit 1 The music Industry

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

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

| | | | - | , | |
|---|----|----------------|--|--|--|
| | | | Self-employed, no long-term c! No work = no p! | | |
| | | | security whe | = guaranteed work / reas casual is not secure, pes give more flexibility | |
| | C. | Record | Labels (pros | and cons) | |
| M | | | l | | |
| e.g. | | Smaller labels | | | |
| Pros = lots of money, links with companies to promote and publish, lots of contacts, get the best deals for manufacturing, good links with advertising and media to promote and market artist/band Cons = difficult to stand out, less control over your music, contracts can be unfair | | | | | |

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

| D. | Venues/Health and Safety/Security |
|--------|---|
| L S | Venue = Venue = _{Th} O ₂ |
| | Health and Safety = to identify and minimise risks HSE = health and safety |
| | Security |
| SECUR | STOP STOP |

media contacts

| E. | Unions/Ag | encies/Trade | Bodies | |
|---|---|---|---|--|
| Agenci | u | PRS formusic | | |
| WICE 3 / | FNO | | | and the |
| Perform | ing Right S | Co | ollects ro | |
| | | al formats like (| | |
| music (| PRS) | | | |
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| Licerise | s the right to | periorii record | ieu musi | |
| Unions | | | | |
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| • | s, and suppor usicians Un | ion | | Musicians' Union |
| <mark>MU</mark> = N | • | ion | ectu 6 | Musicians' Union Musicians' |
| <mark>MU</mark> = N Equity BECTU | usicians Un = Broadcas | ion | | |
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| MU = N Equity BECTU Theatre | usicians Un = Broadcas Union | ion b | | |
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| MU = N Equity BECTU Theatre Trade t Repres | = Broadcas Union odies = Music Pents people in = Profe. Sound Assents those wh = Associa | ting Entertains roducers Guild nvolved in production no work/supply tion of Profession work in the a | Ment Ci. 125 Jucing reg and technologional Regional | corded music plasa ogies cording Service |

Publishing (pros and cons)

| M | S | |
|--------------------------|----------------------|---|
| Remember: Publishing Com | pany = Composition O | |
| | | • |

Pros = good distribution, payment often upfront (in advance), marketing and promotion is good Cons = signed through an agent (which means they take a cut!), harder to get published when the company is huge, more editing done on your work so less control

Pros = no need for an agent, send work directly, done on social media, more in control of editing, stepping stone to a larger company Cons = less money, less marketing and promotion

Identify 3

Design 2

Optimise =

Validate ***

R105: OCR Engineering design **Examination Subject Knowledge**

Specification

Prototyping

Test

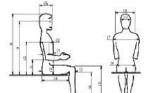
Quality Control: a system of maintaining standards in manufactured products by testing and checking throughout the making stages

Process Planning

Error proofing

Evaluate

Manufacturing Plan



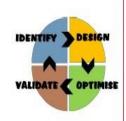


Anthropometrics is the study of measurements of the human body

Ergonomics is the application of anthropometrics in order to make products and places efficient, comfortable and safe to use

Technology Push is when new developments in materials and technologies improve existing products/ create new ones Market Pull is when consumers demand improvements/new products. Often found by conducting market research





- A Design Brief is a statement of how you are going to solve the Design Problem.
- · Research findings and Client feedback can be used to create a Process Plan.
- A Design Specification is a list of requirements your product has to meet in order to be successful.
- · After a Specification has been developed, the designing of the product will
- Once the final design has been chosen, a Manufacturing Plan is then created.
- Prototyping is the creation of a model or "mock-up" of a product after the Design Process
- . Error Proofing is ensuring that the product cannot be assembled or used in an incorrect way
- Testing and Evaluation happens because designers need to ensure the product is successful before being released, and is competitive with the market.



British Standards Kitemark shows that a product has consistently met the resultements of the British Standards Institute, They regulations are of a higher standards than European ones







TOWER



One-off Production

of one item

SPECIAL EDITION

made/designed

This is the manufacture

This item can be custom

(bespoke manufacture)

KNOCKDOWN



Sales and Supply of Goods Act 1994

be safe, fit intended purpose, not be faulty False or misleading information must not be given out about

products. E.g. accurate information must be given out who

Trade Descriptions Act

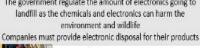
made the product Consumer Protection Act

The Waste Electrical and Electronic Equipment Regulations 2013

1987

The right to claim compensation if a defective product causes death, damage or injury

The government regulate the amount of electronics going to landfill as the chemicals and electronics can harm the environment and wildlife







Continuous Production

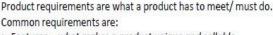


This is where small quantities of identical items are made (10s-1000s)

To ensure all items are identical, jigs, moulds and templates to aid workers

Just-in-time production (JIT)

This is when products made to order, but can be used in conjunction with any other scale of production



- · Features what makes a product unique and sellable
- Performance how well it completes its function
- Target Market how it appeals to its customers
- · Working Environment how it is suitable for where it will be
- Constraints what is must do or must not do
- Ergonomics how its comfortable and safe to use
- Lifecycle what environmental impact it makes (and how that can be reduced)

Mass Production (High-Volume Production)

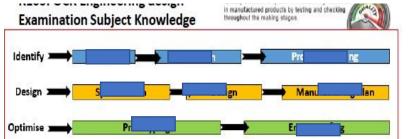
This is where large quantities of products are made (10,000s-100,000s) There are often assembly lines (for the main product) and sub-assembly (for small pieces and components)

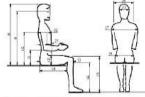
This is when large quantities of products is produced (100,000s +) However, unlike Mass Production this is never ending production e.g. power plants













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Technology Push is when new developments in materials and technologies improve existing products/ create new ones Market Pull is when consumers demand improvements/new products. Often found by conducting market research





Validate =

- A Design Brief is a Problem.
- · Research findings and Client feedback can be used to create a Process Plan.
- A Design Specification is a order to be successful.

What the product will look like, style, colour, etc.

Anthropometrics and Ergonomics will be used, etc.

What dimensions it will be, as well as components and parts

What the purpose of the product will be, and what Features it will have

Cost to make, as well as cost to sell

What is will be made from How it will be be made

meet

- · After a Specification has been developed, t
- Once the final design has been chose created.
- · Prototyping is the of a product after the Design Process
- . Error Proofing is ensuring that the product cannot be
- Testing and Evaluation happens because designers need to ensure the , and is competitive with the product is su market.



British Standards Kitemark shows that a product has consistently met the requirements of the British Standards Institute, These regulations are of a higher standards than European ones



European Conformity Symbol shows that a product has consistently met the minimum requirements of the EU



TOWER



One-off Production

of one item

made/designed

This is the manufacture

This item can be custom

(bespoke manufacture)

SPECIALIST



Trade Descriptions Act

Sales and Supply of Goods

Act 1994

Consumer Protection Act 1987

The Waste Electrical and Electronic Equipment Regulations 2013

False or misleading information must not be given out about products. E.g. accurate information must be given out who made the product

be safe, fit intended purpose, not be faulty

The right to claim compensation if a defective product causes death, damage or injury

The government regulate the amount of electronics going to landfill as the chemicals and electronics can harm the environment and wildlife

Companies must provide electronic disposal for their products



KNOCKDOWN SPECIAL EDITION FURNITURE





Mass Production (High-Volume Production)

Continuous Production

Batch Production

Just-in-time production (JIT)

Who the Target Market is, how it will appeal to them, what How it will be safe to use, what standards and regulations it will have to

what makes a product unique and sellable ce – how well it completes its function

et – how it appeals to its customers

Common requirements are:

ronment – how it is suitable for where it will be used

Product requirements are what a product has to meet/ must do.

what is must do or must not do

how its comfortable and safe to use

what environmental impact it makes (and how that can be reduced)



D.

Factors affecting the popularity of a sport

Current trends in the popularity of sport Growth of new and emerging sports

Year 11 Cambridge National- Contemporary issues in sport- Term 1

Main assessment objectives

Learning outcome: Understand the issues which affect participation in sport

How the factors can impact on the popularity of sport in the UK

Climate- Lack of snow in the UK means the opportunities for snow sports are limited Provision- Lack of facilities such as tennis courts limit who can access them

Elite success- cycling success at the Olympics leads to increased participation in cycling

What are the most popular sports in the UK?

| A. | Key question from Assessment objectives? | |
|-------------------|--|---|
| Key word | | Key definition |
| Ethnic minorities | | A group that has different national or cultural traditions |
| Disposable income | | Money left over after paying all bills |
| Accessibility | | How easy something is to access |
| Provision | | Providing or supplying something |
| Infrastructure | | The available space and facilities to take part in sport. EG- Tennis courts |
| Acceptability | | How accepted and tolerated something is |
| Emei | ging | Becoming more mainstream |
| Conc | essions | Providing something cheaper for certain |

groups

What sports are growing in popularity in the

UK?

Ultimate frisbee

Climbing

Handball

American Football

The possible barriers which affect participation... Employment/time

Unemployed/ economically disadvantaged

Football, Rugby, Cricket, Netball, Walking, Cycling and fishing

The user groups who may participate in sport

1. 2. Work restrictions

C.

A.

5.

6.

8.

Ethnic minorities

Single parents

Disabled people

Children

Teenagers

Retired people/ over 50 Families with young children

Working singles and couples

- 3. Disposable income
- 4. Accessibility of facilities
- 5. Lack of role models
- Provision of activities 6.
- 7. Awareness of activity provision
- 8. Portrayal of gender issues

| G. | The possible solutions to barriers |
|----|------------------------------------|
|----|------------------------------------|

Provision-

Programming of sessions Appropriate activity for user groups Timing of sessions

Promotion-

Targeted promotion Using role models Initiatives aimed at promoting participation

Access-

To facilities To equipment Sensible pricing and concessions

Factors affecting popularity

| Participation | Football has high participation rates due to the infrastructure already in place |
|-------------------------|--|
| Provision | The available equipment and facilities required to play |
| Environment/ climate | The UK weather is suitable for certain sports and not suitable for others |
| Spectatorshi p | The amount of people going to watch the sport |
| Media coverage | How much coverage the sport gets across various media platforms |
| Elite level success | Olympic success usually increase participation |
| Role models | A lack of role models can restrict participation levels |
| Acceptability | Some sports are not accepted in UK culture due to the nature of the |

sport

| | | Year 11 Cambridge National- Conter | | | | | |
|---|------------------|--|----------------------------|---------------|------------------------------------|---------------------|---|
| What we are learning this term A. The different user groups who may | | | Main assessment objectives | | | | |
| participate in sport B. The barriers which affect participal C. The solution to these barriers D. Factors affecting the popularity of E. Current trends in the popularity of F. Growth of new and emerging sport | a sport | Learning outcome: Understand the | Participation | Participation | | | |
| | C. | What are the | | | | | |
| A. Key question from Assessment objectives? | | | | | | Provision | |
| Key word Key definition | | How the factors can impact | | | | | |
| Ethnic minorities | 1 2 3 | | | | | Environment climate | ′ |
| Disposable income | | 1 | | | | | |
| Accessibility | A. | The user groups who may participate in sport are | | G. | The possible solutions to barriers | Spectatorshi | |
| Provision | 1 2 3 4 | | | Provisi | on- | p | |
| la fara da cada cada cada cada cada cada cad | 5 6 | | 2 | | | | |
| Infrastructure | 8 | | | Promoi | tion- | Media coverage | |
| Acceptability | | | | | | | |
| | | | 3 | | | Elite level success | |
| Emerging | | | _ / | Access | :- | | |
| Concessions | Α. | The possible barriers which affect participation | 1 2 | 2 | | Role models | |
| A. What sports are growing in popula UK? | 4 | | 3 | 3 | | | |
| 1 2 3 | 5 6 7 8 | | | | | Acceptability | |
| 4 | | | | | | | |

Definitions of heath and well-being

В

What we are learning in LAA:

Key words Positive Definition Looks at how physically fit and mentally stable a person is. You have a positive attitude Definitions of health and wellbeing towards health and wellbeing if you realise that there is something you can do to improve Genetic inheritance your health and wellbeing and do it. Looks at the absence of physical illness, disease, and mental distress. You have a negative Negative definition attitude towards your health and wellbeing if you: Key words for this Unit Base your attitude on not having anything wrong with you. Continues as you are- Inc. keeping bad habits like smoking. Genetic The genes a person inherits from inheritance their parents Assume that because you currently feel fine you will stay healthy in the future. Holistic definition It is a combination of physical health and social and emotional wellbeing. It is not just the Predisposition Someone is more likely to suffer from a particular condition absence of disease or illness; it looks at all aspects of a person's health and wellbeing. You have a holistc attitude towards health and wellbeing if you look after your: Chronic Gradual illness that is long term Intellectual **Physical Health:** (longer than 3 months) and Be meeting the needs we have to keep our bodies working as well as they can, e.g. Food, generally can be treated but not water, shelter, warmth, clothing, rest, exercise and good personal hygiene. cured Intellectual health: Acute A short-term illness that can be Physical Emotiona By meeting the needs we have to develop and keep our brains working as well as possible; cured these include mental stimulation to keep us motivated and interested. Monitor To check progress over a period of Spiritual **Emotional aspects of wellbeing:** time. By meeting the needs we have that make us feel happy and relaxed, e.g. being loved, Person-Centred Planning care around the wants respected and secure. Knowing how to deal with negative emotions, having positive selfand needs of a service user concept and being respected by others. Bereavement The process of coming to terms Social aspects of wellbeing: with the death of someone close. By meeting the needs we have to help us develop and enjoy good relationships with others, including mixing with others in appropriate environments and having access to leisure Circumstances Events that change your life, over facilities/ activities. which you have no control C. Genetic inheritance Physiological Relates to how a person and their bodily parts function normally. Genes and environment Inherited physical Characteristics Interpret understand an action, mood, or Children inherit their physical; characteristics from their Chromosomes carry genes that determine aspects of persons way of behaving as having a parents e.g. height, skin and eye colour and hair type physical makeup. particular meaning and colour. Gene is a section of DNA that carries a code. Different versions These characteristics can affect social and emotional of a gene are called **alleles** (they can be faulty). Collaboratively Working well together with other welling because they influence a person's self-concept Environmental factors such as diet, also influence physical poeple or services (self-image and esteem). appearance. For example, a person may not grow to their full, Obstacles Difficulties a person might face genetically determined height if they do not have enough food. when they implement a plan. Effects of Allele type Dominant: Physical health: Body systems, growth and mobility What you want to achieve in the Goal inherited Intellectual welling: learning, thinking, problem If a gene is dominant a child inheriting it long term from only one birth parent will have the disorders solving and decision making. condition, e.g Huntington's disease. Emotional wellbeing: how people feel about Norm Something that is usual, typical or themselves. standard Recessive: Social wellbeing: the ability to build relationships If the gene is recessive a child would only and maintaining them. **Targets** Challenges to help you reach your develop the condition if it was inherited from goal both birth parents, e.g. Cystic fibrosis.

| What we are learning in LAA: | | | B Definitions of heath and well-being | | | | | | |
|--|---------------|--|---|---------------------|--|--------------------------------|---|--|--|
| A. Key wordsB. Definitions of health and wellbeingC. Genetic inheritance | | | Positive De | finition | | | | | |
| A. Define the key words for this Unit | | | Negative de | efinition | | | | | |
| Gene | tance | | Holistic def | inition | Definition: | | | | |
| Predis | sposition | | | | | | | | |
| Chror | Chronic | | Intellectual Physical Holistic Emotional | | Physical Health: | | | | |
| | Acute | | | | Intellectual health: Emotional aspects of wellbeing: | | | | |
| Monitor | | | Spiritual | | | | | | |
| Perso | on-Centred | | | | Emotional aspects of weilbeing. | | | | |
| Berea | avement | | | | Social aspects of wellbeing: | | | | |
| Circur | Circumstances | | | | | | | | |
| Dhyai | ological . | | C. | Genetic inheritance | | | | | |
| Physic | ological | | Inherited physical Characteristics | | | Genes and environment | | | |
| Interp | pret | | | | | • | | | |
| Collaboratively | | | | | | | | | |
| Obstacles | | | - | | | | | | |
| Goal | | | Allele type | Dominant: | | Effects of inherited disorders | • | | |
| Norm | | | | Recessive: | | | | | |
| Targe | ets | | | | | | • | | |

What we are learning in LAA:

Palangod dist

you need



| D. Balanced diet E. Chronic and acute illness F. What are the effect of exercise? G. What are the effect of excessive substance use? | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|
| D. | D. Balanced diet | | | | | | | | |
| | What is a balanced diet? Diet that contains the correct nutrients in the right proportions to keep out bodies and minds healthy. It is also a lifestyle choice Choosing to eat too much or too little might make us less able to take all the opportunities that life offers. | | | | | | | | |
| Overweight or under weight or under weight may: • Be prone to illness and conditions • Have their life expectancy reduced • Be less able to exercise effectively • Miss out on learning experiences • Miss out on some sporting activities • Be less successful in job interviews • Feel embarrassed and self-conscious about their appearance in social situations. | | | | | | | | | |
| parts of | Fats (saturated and unsaturated) Carbohydrates (sugars and starches) Minerals Vitamins Proteins | | | | | | | | |
| Est well guide sa you shot eat: | | Eat at least 5 portions of a variety of fruit and vegetables every day. Base meals on potatoes, bread, rice, pasta or other starchy carbohydrates; choosing wholegrain versions where possible. Have some dairy or dairy alternatives (such as soya drinks); choosing lower fat and lower sugar options. Eat some beans, pulses, fish, eggs, meat and other proteins (including 2 portions of fish every week, one of which should be oily). Choose unsaturated oils and spreads and eat in small amounts. Drink 6-8 cups/glasses of fluid a day. | | | | | | | |
| If you ea more tha you need | an | The body will store food as fat and this can lead to: Obesity, heart disease, high blood pressure, Strokes, Tooth decay or cancer | | | | | | | |
| , | If you eat less than The body does not get enough nutrients to grow and developroperly and this can lead to: | | | | | | | | |

Eating disorders, stunned growth, anaemia, heart failure,

depression, tiredness, cancer or rickets.

Chromic or Acute Illness

Chronic illness- Illness comes on gradually, is long term (more than 3 months) and generally can be treated but not cured. E.g Asthma, Diabetes, epilepsy, bipolar disease. Alzheimer's disease

Acute illness- Illness comes on quickly, is short term and can be cured. E.g. Cold, flue, broken bones, heartburn, appendicitis or Diarrhoea.

Some chronic conditions are acute but may develop because of chronic conditions. For example: osteoporosis (a chronic condition that weakness bones) masking their bones fragile and more likely to break. Broken bones are then an acute condition.

Possible negative effects of chronic illness

Physical:

- poor rate of growth
- Unusual physiological change during puberty
- Restricted movement

- Emotional:
 - Negative self-concept
- Stress
- Decision making

Intellectual:

- Disturbed learning because of missing school
- Difficulties in thinking and problem solving
- Memory problems.

Social

- Isolation
- Loss of independence
- Difficulties developing relationships

F. What are the effect of exercise?

Positive effects of exercise



Physical: maintain a healthy weight, reduce BMI, boosting energy levels. Improved flexibility, stamina, endurance and stronger bones and muscles. Reduce risk of heart disease and diabetes.

Intellectual: improved brain function like mentor and thinking skills.

Emotional: improves confidence and mood and reduces stress. Aid relaxation and sleep and lead to better self concept.

Social: encourages social interaction, reducing isolation and improving social skills.

Negative effects of exercise

Physical: Obesity and associated health problems.

Intellectual: Reduced pain performance, hard to concentrate and retain information.

Emotional: poor self-concept and reduced ability to cope with stress. Social: Fewer opportunities for social interactions.

G. What are the effect of excessive substance use?

Negative effects of excessive alcohol consumption



pancreas. Cancers: mouth, throat, oesophagus, liver, breast. Infertility and impotence, weight gain. Intellectual: difficulty in making decisions, depression and anxiety, chance of stroke and brain damage, impaired brain development of unborn baby. Emotional: poor self-concept, poor judgement leading to a risk of accidents and

Physical: Alcohol dependence, damage to major organs: liver, heart, kidneys,

unsafe sex, can have an impact on relationships, depression. **Social**: breakdown of relationships, domestic violence, social isolation

| What we are learning in LAA: | | | E | Chromic or Acute Illness | | | | | |
|---|----------|--|--|--------------------------|--|----------------|------|--|--|
| D. Balanced diet E. Chronic and acute illness F. What are the effect of exercise? G. What are the effect of excessive substance use? | | Chronic illness- | | | | Acute illness- | | | |
| D. Balan | ced diet | | Explanation: | | | | | | |
| What is a balanced diet? | | | Possible negative effects of chronic illness | | | | | | |
| | | Physical: Em | | | Emo | otional: | | | |
| Overweight or underweight may: | | | Intellectual: | Intellectual: So | | | ial | | |
| | | | F. | What are th | ne effect of exercise? | | | | |
| Essential parts of a healthy diet: | | | Positive effect exercise | ets of | Physical: Intellectual: Emotional: Social: | | | | |
| Est well guide says you should eat: | | | Negative efferexercise | ects of | Physical: Intellectual: Emotional: Social: | | | | |
| | | | G. | What are th | ne effect of excessive substa | nce | use? | | |
| If you eat | | Negative efferences excessive aloconsumption | ve alcohol nation Intellectual: | | | | | | |
| If you eat less than you need | | | | | Emotional: Social: | | | | |

Negative effect on the person being cared for

Discomfort for the person being cared for

because of the odour or visible dirt under

fingernails.

and their health and wellbeing- pass on infection

others:

Irritant particles cause: What we are learning in LAA: What are the hazards of Smoking Nicotine causes: bronchitis The effects of social interactions on wellbeing · addiction · emphysema · increased blood clotting leading What are the effects of stress on health and wellbeing · asthma What are the hazards of smoking Heart disease and poor circulation mean: to thrombosis. · smoker's cough. K. What are the effects of personal hygiene · increased blood pressure · increased risk of heart attack Conditions such as: H. The effects of social interactions on wellbeing · narrowing of the arteries. stroke · gum disease. Social When people feel they belong to a group and can interact with others. Social interactions can happen integration Carbon monoxide causes: Tar causes cancers of the nose, between family members and friends, work colleagues, decreased oxygenation The hazards of throat, tongue, lungs, stomach school learners, members of a community or interest · poor growth smoking groups. and bladder. extra work for the heart increased risk of thrombosis. Social isolation Occurs when people do not have regular contact with Smokers': others. This may be because they don't go out much · breath and clothes smell of because of physical illness, reduced mobility or Exposure in childhood means that smoke unemployment. They might have a difficulty in children: · hands and nails are nicotine communicating if they have a mental illness, depression · are prone to chest infections and asthma or learning difficulties. Lastly, a person might be stained Exposure in pregnancy causes: • tend to be smaller and weaker discriminated against because of culture, religion or · faces often become wrinkled from smaller babies · do less well at school. disability. the effects of smoking. · more stillbirths · more miscarriages. Positive effects of Physical: physical support and day to day care and practical assistance. **Intellectual**: shared experiences, supported learning and thinking relationships **Emotional:** unconditional love, security and encouragement, positive self-concept, What are the effects of Personal Hygiene? feeling content, ability to build relationships with people outside the family. independence and confidence. Positive effects Helps prevent the spread of infection Social: Companionship, social circle increases. Improves self-concept of good personal Reduces number of bacteria that lives on us. hygiene Negative effects of social Physical: poor lifestyle choices like smoking and drinking, poor diet that can cause You must: isolation eating disorders. Brush vou teeth **Intellectual**: reduced ability to use thinking skills, missing school/work Shower daily or bath Emotional: feelings insecure, depression, anxiety, negative self-concept, feeling of Wash your hair regularly hurt, loneliness and distrust, lack of independence, difficulty in controlling Keep fingernails and toenails clean and trimmed emotions. Social: difficulties in building relationships as lack skills. Physical: catching and spreading disease like food Negative effects poisoning, sore throat, meningitis and athlete's foot. of poor personal What are the effects of stress on health and wellbeing hygiene Bad body odour, bad breath and tooth decay. Emotional: loss of friendships and social isolation. Physical effects Intellectual effects **Emotional effects** Social effects Might be bullied and poor self-concept. Social: low social interactions as people don't want to be friends with someone that neglects their Increased heartbeat Forgetfulness Difficulty in controlling Difficulty in making hygiene. Social isolation. Increased breathing rate Poor concentration emotions friends and building Tense muscles Difficulty in making Feeling insecure relationships When caring for Bad hygiene can stop effect communication. Negative self-concept Breakdown of close Sweaty palms decisions

relationships

Social isolation

Feeling anxious and

Loss of confidence

frightened

Dry mouth

High blood pressure

Digestive problems

Loss of appetite

Sleeplessness

| | | | | | | | | 32 |
|--|-------------------|------------------------------|-------------------|--------------|-------------|-----------------------------------|-------------------------------------|-----------|
| What we | are learning i | n LAA: | | J. | What are th | ne hazards of Smokir | ng- draw out the mind map in the sp | ace below |
| H. The effects of social interactions on wellbeing I. What are the effects of stress on health and wellbeing J. What are the hazards of smoking K. What are the effects of personal hygiene | | | | | | | | |
| н. | The effects of so | cial interactions on wellbei | ng | | | | | |
| Social integration | n | | | | | | | |
| Social iso | lation | | | | | | | |
| Positive of relations | effects of | Physical: | · | | | What are | the effects of Bouncies I Unividual | |
| relations | | Intellectual:. | | | | K. What are | the effects of Personal Hygiene? | |
| ĺ | | Emotional: | | | | of good personal | | |
| • | | Social: | | | | hygiene | You must: | |
| Negative isolation | effects of social | Physical: | | | | S. W. | : | |
| <u>.</u> | 4 & | Intellectual: | | | | 1 0 | : | |
| T | | Emotional: | | | | | | |
| | | Social: | | | | Negative effects of poor personal | Physical: | |
| l. | What are the | effects of stress on health | and wellbeing | | | hygiene | Emotional: | |
| Physical effects | | Intellectual effects | Emotional effects | Social effec | ets | | Social: | |
| | | | | | | | Social. | |
| | | | | | | | | |
| | | | | | | When caring for others: | • | |
| | | | | | | | • | |
| | | | | | | | 1. | |

Moving to

house or area

Retirement

a new

Excitement

relationships

Reduced stress

physical activities

and friends

Develop new friendships and

Time to socialise with family

Opportunities for leisure of

Unhappiness at loss of old life

Loss of relationships with

Possible loss of fitness and mobility

Loss of intellectual stimulation and

Stress of moving

Social isolation

colleagues

status

| What we are | learning in LAA: | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| M. What areN. What are | M. What are the effects of unexpected life events on health and wellbeing N. What are the effects of economic factors (e.g, income) on health and wellbeing | | | | | | | |
| L. | What are the barriers to seeking help. | | | | | | | |
| Culture | Accessing HSC services can be influenced by values, traditions, way of life and beliefs of the society or group. Some may have received discrimination when accessing other services. Some may not speak English well enough. Values and traditions not understood e.g. eye contact means respect in some cultures but not others. Some cultures a woman must be treated only by a female professional. Alternative therapies are used in some cultures | | | | | | | |
| Gender | Research shows that men are lesson likely to talk about their health and wellbeing than woman. This is because men are: Often less open about their feelings Sometimes reluctant to appear vulnerable by asking for help Not aware of poor health signs as health campaigns target women's health more Unhappy to be examined by a female health worker. | | | | | | | |
| Research shows that people who are better educated are more likely to seek help. This is because: They like to research symptoms and know when help is needed Understand the importance of early diagnosis and treatment Know how and where to access services. | | | | | | | | |
| Stigma | In some cultural groups there is a stigma depression. Stigma is a word used to des embarrassed about. Therefore, they would | cribe something that people feel | | | | | | |
| M. What | are the effects of unexpected life events | on health and wellbeing | | | | | | |
| Life event | Positive Effects: | Negative Effects: | | | | | | |
| Imprisonment | Depression Loss of contact with family and friends Social isolation Restrictions on physical activity | Opportunity to study Improvement in health through balanced diet, lack of alcohol, reduced use of nicotine | | | | | | |
| Redundancy | Poor self-concept Anxiety about finances Fewer opportunities | Opportunities to study or train for a new job More time to spend with family and friends | | | | | | |
| Exclusion or dropping out of education | Loss of contact with friends Social isolation Poor self-concept Lack of learning opportunities | Catalyst for change of behaviour Opportunities for more suitable study or work situation | | | | | | |

| N. | Wha | at are the effects of economic factors (e.g, income) on health and wellbeing | | | | | | | |
|--|------|---|--|--|--|--|--|--|--|
| | | Positive Effects: | Negative Effects: | | | | | | |
| Physical | | Better financial resources can result in good housing conditions and healthy diet Manual jobs may improve muscle tone and stamina. | Low wages can affect diet ad housing, leading to poor health. Manual jobs can cause muscular and skeletal problems Desk jobs lead to less activity and weight gain. | | | | | | |
| Intellectual | | Better financial resources can result in more leisure time for intellectual activities Work, education or training helps to develop problem solving and thinking skills | Some people work very long hours to improve their financial position, leading to less leisure time and reduced learning opportunities. Being unemployed can result in poor mental health. | | | | | | |
| Emotional | | A well-paid job gives a feeling of security. Being financially secure promotes positive self- concept | Financial worried can result in stress and breakdown of relationships. Unemployment or low-status work can lead to low self-concept | | | | | | |
| Social | | Better financial resources provide opportunities for socialising. Work gives opportunities for socialising with colleagues. | Lack of financial resources reduces opportunities for socialising. Unemployment reduces opportunities for relationships, leading to social isolation. | | | | | | |
| 0. | V | /hat are the effects of expected life e | events on health and wellbeing | | | | | | |
| Life eve | ent | Positive Effects: | Negative Effects: | | | | | | |
| Starting school, college or uni | | Build new relationships Extend knowledge and learning Develop new skills Improve confidence | Anxiety about new routines and meeting new people Insecurity about leaving parents and other families | | | | | | |
| Start a new jol career | o or | Develop independence Improve thought processes Improve self-concept | Stress about learning new skills and routines Anxiety about meeting new people | | | | | | |
| | | | | | | | | | |

| What we are learning in LAA: | | | N. | Wha | at are the effects of economic factors | s (e.g, income) on health and wellbeing | |
|------------------------------|---|--|---|-----------------------------|--|--|-------------------|
| M. Wr | M. What are the effects of unexpected life events on health and wellbeing | | | | | Positive Effects: | Negative Effects: |
| N. Wh | What are the effects of economic factors (e.g, income) on health and wellbeing What are the effects of expected life events on health and wellbeing | | | Physic | al | | |
| L. | ١ | What are the barriers to seeking help. | | | | | |
| Culture | • | | | | | | |
| | | | | Intelle | tual | | |
| | | | | | | | |
| | | | | | | | |
| Gender | | | | Emotio | nal | | |
| | | | | | | | |
| | | | | | | | |
| Educati | ion | | | Social | | | |
| | | | | | | | |
| | | | | | _ | | |
| Stigma | | | | 0. | V | What are the effects of expected life of | |
| | | | | Life ev | | Positive Effects: | Negative Effects: |
| м. | Whatan | to the effects of unexpected life events | on hoolth and wellhoing | Starting school, college or | | | |
| Life eve | | Positive Effects: | of unexpected life events on health and wellbeing fects: Negative Effects: | | e or | | |
| Impriso | | 1 0011170 =1100101 | | Start a | | | |
| | | | | new jo | | | |
| | | | | Career | | | |
| Redund | lancy | | | Movin a new | g to | | |
| | | | | house area | or | | |
| | | | | | | | |
| | ng out of | | | Retire | nent | | |
| educati | on | | | | | | |