St Wilfrid's RC College Year 11 Module 1 Knowledge Organisers



Instructions for using your Knowledge Organiser

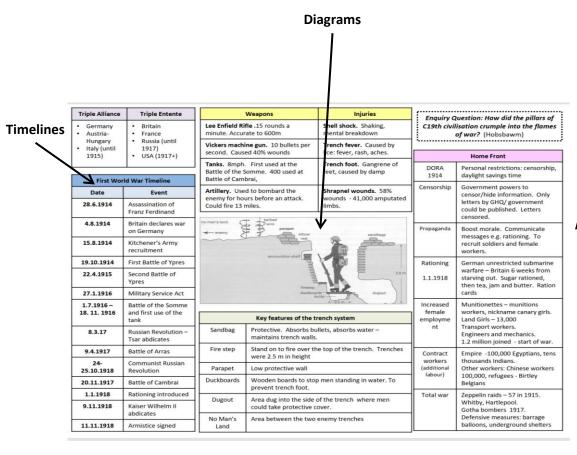
Self-testing You can use your KOs and book in a number of different ways but you should not just copy from the Knowledge Organiser into your book. Below are some possible tasks you could do in your workbooks

wn	at can you use them for?:
	Self quizzing – retrieval
	Getting someone to quiz / test you
	Look, cover, write, check
	Creating revision tools: flash cards, mind maps, revision clocks
	Creating summary notes: Cornell notes
	Spelling tests
	Definition tests
	Knowing what knowledge you have looked at so far and what knowledge is going to
	be studied – connecting your learning
	Connect your previous module/topics learning with your current learning.
_	Carry out additional research
_	If you are absent, you need to get work from your teacher and use your Knowledge
_	Organiser to identify the knowledge that you need to study.
	organiser to identify the knowledge that you need to study.
	F
	Expectations
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	learning annotations
	Use them as part of your homework
N	ame:
	orm Group:
	orm Group:
F	orm Tutor:
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Knowledge Organisers What are they?

What are they?

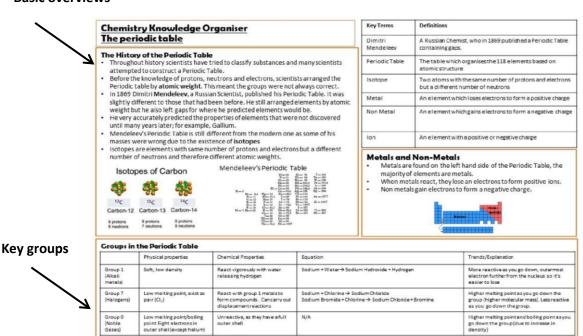
Some examples:



Key words and definitions



Basic overviews



Knowledge Organisers Contents Page

Page number	Subject
4-5	English Language
6-7	English Literature
8-10	RE
11-13	Science - Biology
14-16	Science - Chemistry
17-18	Science - Physics
19-20	History
21-23	Geography
24-29	Spanish
30	Art
21-32	Music
33+	Starter for 5 – Self Quizzing templates

Question 5 Question 4 Question 3 Question 2 Question 1 AQA English Language Paper 1 – Fiction Section A – 15 mins reading time Focus: Evaluation of effectiveness of Focus: Analysis of language use and Focus: Identifying explicit information style so practise both / PLAN first Focus: Descriptive and / or narrative Marks: 40 (24 content / 16 technical of text and how it engages the reader. Focus: Analysis of the overall structure Tips: Use quotations or paraphrase Tips: The task could be either writing accuracy) alternative viewpoints / answer the Q in the text. writing task. Time: 45 minutes focus of the question – re-read it! Tips: Make sure you only explore the Time: 20 minutes **Marks**: 20 the start to the end of the extract and Tips: How does the focus change from Marks: 8 **Tips**: Layers of meaning / KWA / Time: 8 minutes Marks: 8 Time: 4 minutes Marks: 4 why has the writer done this? Time: 8 minutes or ideas or to highlight the repetitive nature of a certain message. allow the reader to reflect on their own response to the question. each other: 'Living dead', 'Working holiday'. – can make a character seem 5. Personification – Giving an object human qualities to make it sound more 'Its eyes fired daggers into my very soul'. is being repeated. 3. Alliteration — can create a harder or softer mood depending on which sound allowing the writer to exaggerate or create vivid imagery. **8. Pathetic Fallacy** – Using the weather to reflect to mood of the characters or create vivid imagery. **4. Metaphor** – Making a direct comparison to something than a simile does: specifically for effect in writing: 'I've told you a thousand times!'. of something else. It therefore helps us to see these people/things in a new 1. Simile – A simile gives the person/thing being described the characteristics **10. Repetition** – A way that a writer can emphasise the importance of words **9. Rhetorical Question** – Can be used to emphasise: Humor—to emphasise scene – this creates tone and develops emotion in the writing. confused or lost. 7. Oxymoron – A figure of speech in which opposite words appear next to 6. Onomatopoeia – can be used to create atmosphere of being surrounded by Sibilant /s/ sounds (<s> <ss> or <c> as in 'ice'. <sh> <dg> <x> <ks> or <ch>) can **Plosive** $\frac{\mathbf{b}}{\mathbf{p}}$ $\frac{\mathbf{t}}{\mathbf{d}}$ sounds create an abrupt, sharp, sometimes shocking 2. Hyperbole – Exaggerated statement or claims not to be taken literally, used the action by engaging the sense of sound. It can bring to life a scene and powerful or in control: 'The paintings stared at me menacingly as I crept along create a soft, devious or sinister atmosphere. It can also present a hissing 3. Crucial Challenging (leading the audience to identify with the writers views) / Reflectiveness—to how ridiculous an idea is / Obviousness—to emphasise how obvious an idea is the hallway´. light - in a way we may have never seen them or thought about them before Pivotal 1. Subtle Evaluative vocabulary (Q4) Language devices and their effects (Q2 and Q4) 7. Significant Striking 5. Skilful 8. Provocative - Also can be used in Q5 response Sympathy 1. Outrage Remorse **Emotional vocabulary (Q2, Q3, Q4)** Empathy Compassion Approval 7. Satisfaction It could be argued that/the reader may infer... positioned to feel/ the writer causes the reader 4. You get the impression/the reader is line/adjectives/noun/verb/phrase/image.. demonstrates/ portrays/ presents/ highlights/ 1. This suggests/ implies/ indicates/ encouraged/positioned in favour of/against 5. READER POSITIONING: The reader is 4. THE COMBINED EFFECT OF TECHNIQUES: The INTERPRETATION: The image could also be 3. ANALYSING AN ALTERNATIVE developed at a later point when.... symbol/idea/concept of 2. TRACING IDEAS THROUGHOUT THE TEXT: The 1. DEEPER ANALYSIS: Upon first glance, it would is to happen later to build 3. Foreshadowing – a 2. Dialogue – speech to 1. Juxtapositions – a to consider.. emphasises/ develops... writer uses to create tension / highlight... interpreted as... dramatic tension hint of what characters reveal information about Contrast between ideas Structural choices and their effects (Q3) Phrases to ensure a sophisticated Extending analysis (Q2, Q3, Q4) - Also can be used in Q5 response because.... analysis (Q2 and Q4) __; however, on closer inspection... _coupled with 4. Narrative 5. Shifts or changes in and changes the reader – takes the Places, tone and and how this develops perspectives - the signpost new events or focus – changes to viewpoint of the narrator reader on a journey time, topics,

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lles Like a predator stalking its prey, the thief approached the boy. osition Under the dark clouds, the lamppost gleamed brightly. Cautiously, the girl reached out to touch the creature. Despite the weather, the girl plunged into the sea. Petrified, the dog stood rooted to the spot. of adjectives Pale and bright, the sun cast its light across the forest below. Perched precariously on a thin tree branch, a small robin sang.	lles Like a predator stalking its prey, the thief approached the boy. osition Under the dark clouds, the lamppost gleamed brightly. Parb Cautiously, the girl reached out to touch the creature. Despite the weather, the girl plunged into the sea. Petrified, the dog stood rooted to the spot. Pale and bright, the sun cast its light across the forest below.	Like a predator stalking its prey, the thief approached the boy. osition Under the dark clouds, the lamppost gleamed brightly. srb Cautiously, the girl reached out to touch the creature. Despite the weather, the girl plunged into the sea. Petrified, the dog stood rooted to the spot.	Like a predator stalking its prey, the thief approached the boy. Osition Under the dark clouds, the lamppost gleamed brightly. Cautiously, the girl reached out to touch the creature. Despite the weather, the girl plunged into the sea.	Like a predator stalking its prey, the thief approached the boy. Osition Under the dark clouds, the lamppost gleamed brightly. Cautiously, the girl reached out to touch the creature.	Like a predator stalking its prey, the thief approached the boy. Osition Under the dark clouds, the lamppost gleamed brightly. Cautionally the girl reached out to touch the greature	Like a predator stalking its prey, the thief approached the boy. Osition Under the dark clouds, the lamppost gleamed brightly.	les Like a predator stalking its prey, the thief approached the boy.	() () () () () () () () () ()	Ing Grabbing her bag, the woman stormed out of the shop.			A tale of two halves Tell the incident from one character's perspective and then tell the whole thing	Flipped narrative Start with the end - the most dramatic moment (present tense) and then flashback to the events leading up to it.	the reader at the end.		opener should then jump back in time. Recount the events leading up to this first line.	e sentence		Flashback A method of narration in which present action is temporarily interrupted so that the Hyperbole	Cliffhanger A dramatic moment leaving suspense over what is to come	Resolution Ends the conflict and leaves reader content Simile	Falling Action Events after the climax, leading to the resolution Metaphor	Climax Most exciting moment of the story; turning point Alliteration	Rising Action Events leading up to the climax	Inciting Incident An event that begins the action/plot.	Exposition A narrative device often used at the beginning of a work that provides necessary background information about the characters.		Linking theme Repeated reference to an object, person or idea throughout.	Overview Zoom back out, returning to the bigger picture (wide/panoramic)			Ses	Zoom in Focus on an object and describe it in detail (close up)	Overview Describe the bigger picture (wide/panoramic)	STRUCTURING A DESCRIPTION	Descriptive writing Focused creating an image in the reader's mind Narrative writing and describing a scene in detail	AQA English Language Paper 1 – Secti
Declarative A statement Pathetic fallacy an object or the weather. Emotive language Language intended to create an emotional response.		A statement A type of personification where emotions are given to a setting an object or the weather.	A statement A type of personification where emotions are given to a setting	A statement	A statement	A statement		la command	throughout a poem or story.	When a writer exploits a single metaphor or analogy at length	appear in conjunction	A rigure of speech in which apparently contradictory terms	A faure of speech is which appearantly controllisters towns	The experience (associations) we bring to a word	actually does happen.	really meant, or between what is expected to happen and what	A contrast or discrepancy between what is stated and what is	emotion, make a point, or evoke humor	A figure of speech that uses exaggeration to express strong	-	A comparison of two things using like or as	A comparison of two things without using the word like or as.	Repetition of consonant sounds		feelings, thoughts, or attitudes	considered unpleasant A figure of speech in which an object or animal is given human	An indirect, less offensive way of saying something that is	A word that imitates the sound it represents.		itself, that stands for something beyond itself.	An object or action in a literary work that means more than	a little contribution of the contribution of t	the fact that there are words which sound alike but have	A joke exploiting the different possible meanings of a word or	LANGUAGE FEATURES	Focused on character, setting and plot development with descriptive elements as well as dialogue and action.	Section B Knowledge Organiser

Characters		
Inspector P Goole ju	Priestley's mouthpiece; advocates social justice; serves as the Birlings' conscience	Socialist, moralistic, righteous, powerful, intimidating, unconventional, mysterious, imposing, sardonic, omnipotent
Mr. Arthur B Birling e	Businessman; capitalist; against social equality; a self-made man (new-money)	Capitalist, arrogant, foolish, Panglossian, emasculate, prejudice, ignorant, selfish, stubbom, vainglorious
Mrs. Sybil H Birling p	Husband's social superior; believes in personal responsibility	Arrogant, cold-hearted, insincere, prejudice, naïve, conformist, bitter, controlling, remorseless
Sheila Y	Young girl; comes to change views and pities Eva; feels regret	Transformative, remorseful, socialist, pseudo-inspector, sensitive, astute, strong-minded, empowered
Eric Y	Young man, drinks too much; forces himself on Eva Smith; regrets actions	Rebellious, reckless, immature, insubordinate, compulsive, desperate, disgraced, dualistic, irresponsible
Gerald B	Businessman; engaged to Sheila; politically closest to Birling	Aristocratic, evasive, secretive, dishonest, disingenuous, oleaginous, chivalric, privileged, pragmatic
Eva U	Unseen in play; comes to stand for victims of social injustice (changes her name to Daisy Renton	Suffragist, victim, emblematic, allegorical, vulnerable, desperate, socialist, moralistic, principled
Theatrical S	Theatrical Stagecraft: Dramatic Devices	
Dramatic irony	Birling's speeches, Mrs. Birling's witless implication of Eric	less implication of Eric
Stage directions	Instructions for the actors; often revealing – such as arrives: "Pink and intimate then brighter and harder"	Instructions for the actors; often revealing — such as the lighting change when the Inspector arrives: "Pink and intimate then brighter and harder"
Setting	Constant throughout but subtle cha	Constant throughout but subtle changes e.g. lighting; characters on/off stage
Tension	Builds up throughout the play ; inte	Builds up throughout the play ; interrogation of characters, personal relationships, secrecy
Cliff-hanger	Eric's reappearance in Act 3; the en	Eric's reappearance in Act 3; the ending allows the audience to make up their minds
Foreshadowing	Symbolism (The Titanic), Mr. Birling's "knighthood", war	's "knighthood", war
Time-lapse	Set in 1912, written in 1945; audience in a privileged position	ce in a privileged position.
The 4 th Wall	The Inspector's final speech addressed directly to audience	ed directly to audience.
Social, Histo	Social, Historical and Literary Allusions	
"the Titanic"	The Titanic sailed from Southampto clearly wants his audience to see hevents and he has also chosen a mironic.	The Titanic sailed from Southampton and sank in the early hours of 15th April 1912. Priestley clearly wants his audience to see his drama play out against a background of real historical events and he has also chosen a moment in time when Birling's comments appear particularly ironic.
"Nobody wants war"	In reality, economic rivalry between the the many causes of the First World War.	In reality, economic rivalry between the British Empire and the new German Empire was one of the many causes of the First World War.
"Russia"	The irony here suggests that Russia by the 1940s.	The irony here suggests that Russia will have progressed further than other European countries by the 1940s.
"Bernard Shaws and H. G. Wellses"		Both the noted Irish playwright George Bernard Shaw (1856-1950) and the father of science-fiction H. G. Wells (1866-1946) were well-known and outspoken socialists.

An Inspector Calls' by J.B. Priestley: A Knowledge Organiser

Act 3	Act 2	Act 1	Plot
Eric is revealed as the father. He stole money from Mr Birling's office to provide money to Eva. The Inspector delivers his final speech. After he leaves, the family begin to suspect that he was not a genuine police inspector. A phone call to the Chief Constable confirms this. Next, they phone the infirmary to be informed that no suicide case has been brought in. Mr Birling, Mrs Birling and Gerald congratulate themselves that it was all a hoax and they continue can continue as before. This attitude upsets Sheila and Eric. The phone rings. Mr Birling announces to the family that a girl has just died on her way to the infirmary, a police inspector is coming to question them	Gerald explains to The Inspector that he had an affair with Eva, but hasn't seen her since he ended their relationship back in Autumn 1911. Sheila gives her engagement ring back to Gerald. The Inspector turns his attention to Mrs Sybil Briting, she confesses that she also had contact with Eva, but Eva gave herself a different name to Mrs Briling. Eva approached a charity chaired by Mrs Briling to ask for help. Eva was desperate and pregnant but help was refused by Mrs Briling because she was offended by the gift calling herself 'Mrs Birling'. She tells Eva that the baby's father should be made entirely responsible. She also tells inspector Goole that the tather should be held entirely responsible and should be made an example of.	Set in April 1912, Brumley, Midlands, UK. The Birling family and Gerald Croft are celebrating Sheila Birling's engagement to Gerald with a dinner. Mr Birling lectures his son, Eric Birling, and Gerald about the importance of every man looking out for himself if he wants to get on in life. Edna (the maid) announces that an inspector has arrived. Inspector Goole says that he is investigating the death of a young woman who committed suicide. Eva Smith. Mr Birling is shown a photograph of Eva, after initially denying recognising the woman in the photo, he remembers fring her in 1910 for organising a strike over workers pay. Sheila recalls also having Eva sacked about her manner when served by her in an upmarket department store. The Inspector reveals that Eva Smith changed her name to Daisy Renton. Gerald reveals to Sheila he had an affair with Daisy Renton.	

Key concepts	Key concepts and context: Think about
1912	Set just before WWI and the sinking of the Titanic. A moment of rising international tensions and industrial expansion. End of Victorian era saw the demise of the rigid class system. Labour Party, founded in 1900, gaining momentum. The Russian Revolution began in 1917.
1945	People were recovering from six years of warfare, danger and uncertainty. Class distinctions greatly reduced as a result of two world wars. Women had a more valued place in society. Desire for social change. Following WW2, Labour Party won a landslide victory over Winston Churchill and the Conservatives.
Wealth, Power and Influence	The Birlings and the Crofts are representative of the wealthy upper-class. They all misuse their social influence to benefit themselves. Their actions adversely affect the vulnerable people in society.
Blame and Responsibility	Who is to blame for Eva's death? Each of the Birlings contribute to a chain of events leading to the destruction of Eva Smith. What responsibilities do the characters have to each other? To society?
Public v Private	How do the public lives, the facades, of the Birlings juxtapose their private personas? What are their motivations for this? What are the repercussions, and for who?
Morality and Legality	What are the moral and legal laws of the society depicted in the play? How do they interweave? What actions do the characters undertake that are wrong, morally or legally?
Class Politics	How do the ideologies of capitalism and socialism collide in the play? Which characters are representative of which political allegiance? Is there a correlation between a character's political beliefs and their behaviours?
Prejudice	What are the prejudices held by the Birlings? What are their inherent views regarding class and status? How do they act on these prejudices, and what are the consequences?
Young v Old	What differences are evident between the younger and older generation? They react and behave differently throughout the play – why? What are their attitudes towards each other? What do they learn? Which characters change, and how?

ACT Ordo	Order of the Inspector's	Key Notes	Charact	Character Quotes
Act 1 Sheila and a celebrated	Sheila and Gerald's engagement is celebrated.	Priestley asks his audience to examine their individual and collective responsibility to society. He wants a welfare state.	Birling's Confidence	"We're in for a time of steadily increasing prosperity"
Act 1 Birling : Titanic	Birling says there will be no war; references Titanic	The hypocrisy of middle-class Edwardian society is uncovered: appearance & reputation matter more	Birling on society	"The way some of these cranks talk and write now, you'd think everybody has to look after
Act 1 Inspect	Inspector arrives; a young girl has committed suicide.	than reality & morality .		avery poorly erse
Act 1 Birling	Birling threw her out after strike; Sheila had her	Priestley criticises the selfishness of capitalism and	Shelia's recognition	'but these girls aren't cheap labour – they're people''
tired to	fired for laughing.	two world wars	Sheila's regret	'it's the only time I've ever done anything like
Act 2 Gerala	Gerald had an affair with Daisy Renton	Priestley shows the older generation to be set in		that, and I'll never, never do it again to anybody'
Act 2 Mrs. Bi	Mrs. Birling refused to give charity to Eva; blames father.	their ways, while the young are open to change .	Sheila on the inspector	'we all started like that – so confident, so pleased with ourselves until he began asking
Act 3 Eric's i	Eric's involvement revealed; possible rape	Eva Smith is the embodiment of young, working-		us questions'
+	otor location of the second se	middle/upper classes.		last two years'
police	policeman, no Inspector G	The play demonstrates that when workers do not have full employment rights they cannot fight back	Inspector on guilt	'I think you did something terribly wrong – and that you're going to spend the rest of your life
Act 3 Teleph	Telephone rings; an inspector is coming.			regretting it'
Thematic	c Quotes		Mrs Birling defends	'she was claiming elaborate fine feelings and scruples that were simply absurd in a girl in her
Social	"We are responsible for each other" <i>Inspector</i>	Inspector	nerseir	position
responsibility	"It's what happened to the girl and what we all did to	"It's what happened to the girl and what we all did to her that mattered." <i>Eric</i>	Eric explains	'I'm not very clear about it, but afterwards she told me she didn't want me to go in but
Capitalism	"These silly capital vs labour agitations." Birling "A man has to make his own way" Birling	ns." Birling Birling		that – well, I was in that state when a chap easily turns nasty – and I threatened to make a row'
Class	"A girl of that class" Mrs Birling "Well, we've several hundred youn	"A girl of that class" Mrs Birling "Well, we've several hundred young women there, y'know, and they keep	The inspector	'but each of you helped to kill her.
Age	"the famous younger generation" E	irling		
Age	"the famous younger generation" Birling "What's the matter with that child?" Birling "Just keep quiet, Eric" Birling	irling ' Birling	Inspector's message	'there are millions and millions and millions of Eva Smiths and John Smiths still left with us,
Gender & attitudes to women	"I hate those hard-eyed dough-faced women" - Gerald "And you think young women ought to be protected ag disturbing things?" Inspector "She had far too much to say, far too much" Birling	"I hate those hard-eyed dough-faced women" - Gerald "And you think young women ought to be protected against unpleasant and disturbing things?" Inspector "She had far too much to say, far too much" Birling		with their lives, their hopes and fears, their suffering, and chance of happiness, all intertwined with our lives, with what we think and say and do. We don't live alone.'

Roman Catholic Christianity Forms of Expression & Ways of Life Knowledge Organiser

Catholic church Architecture

Catholic churches are places of prayer & worship.

Design of the church

- Circular: A reminder that God is eternal & has no above... (Genesis) beginning & no end. SOWA: God hovered
- Ņ Cross Shaped: A reminder that Jesus died on the Cross to save us from sin. SOWA: "Crucified under Pontius Pilate (Nicene Creed)
- ယ he rose again" (Nicene Creed) Facing east: Sun rises in the east, a reminder that Jesus rose from the dead, SOWA: "On the 3rd day

How churches are used.

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- Churches are used for worship- Mass & the 7
- ωΝ Private prayer.
- Popular Piety- Stations of the Cross, Rosary, **Eucharistic Adoration.**

Sacred Vessels

These are used to help Catholics focus during Mass.

- **Ciborium:** Used to hold the Body of Christ
- used by the Priest. Paten: Used to hold the Body of Christ-
- **Chalice:** Used to hold the Blood of Christ

- Sarcophagi: Some very old churches have decorated with biblical scenes. significant people, they are sometimes sarcophagi containing the bones of
- of ordinary people. pictures of how God is involved in the lives common in developing countries to show **Hunger Cloths:** The cloths are now more

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<u> Artwork in Catholicism</u>

Artwork is used to help Catholics learn abou their faith and stories from the Bible.

- **Icon:** A religious image painted on wood
- **<u>Fresco:</u>** A religious painting on plaster.
- SOWA: "Sacred art is true and beautiful" (CCC) **Painting:** A religious piece of artwork.
- creating Man. SOWA: "6th day, God make Sistine Chapel: Creation of Adam, God Man. (Genesis 1)
- Crucifixion & Resurrection of Jesus. SOWA: **Last Supper:** Shows the Last Supper Paschal Mystery.
- over the world on the crucifix, links to Trinity-St John of the Cross: Depicts Christ looking God & Incarnation.

Drama

Drama is used to express religious belief

- Passion Play: Tells the death of Jesus. SOWA: Jesus- trial, crucifixion & story of the Passion of "Crucified under Pontius Pilote (Nicene Creed)
- used to allow those who could not read or write Bible stories, originally to explore their faith. Mystery Play: Plays bou

SOWA: "Drama... engages the heart" (CCC)

<u>Symbols</u>

Christians use symbols to express belief & faith.

The things that we would find in a church

Catholic church Features

Lectern: Where the Bible is read from,

links to the Liturgy of the Word during

Cross: Shows the resurrection of Christ **Crucifix:** Shows the sacrifice that Jesus Reminds us that he rose again.

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- ယ Fish: Early symbol of Christianity. Reminds made for our sin. Reminds us that God so loved the world, he gave his only Son.
- 4 **Dove:** A symbol of peace & love. Reminds us that Jesus called us to tollow him.
- us to tollow teachings of Jesus.

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is kept. Jesus physically in the church.

Tabernacle: Where the Body of Christ

leath for our sin.

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Crucifix: Has Jesus on, reminder of his church, reminds us of the Last Supper Altar: Table that is a focal point of the

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Sculptures & Statues

These are a way of remembering religious individuals.

- Pieta: Mary holding Jesus after the crucifixion. Example of her taith & discipleship.
- with his arms open. Showing **Christ the Redeemer:** Christ his welcoming arms or his
- that shows his heart in thorns-Sacred Heart: Statue of Jesus reminder of his Passion.

Music is used in Mass & other forms of worship.

- **Hymns:** Used for prayer, worship & adoration.
- Plainchant: singing without set music, Taize is a common form.
- Psalms: Found in the OT, used in Liturgy of the Word part of Mass.
- Worship Songs: Modern form of worship, Gospe choir songs, linked to youth movements as less traditional

SOWA: "Make melody to the Lord with all your

Roman Catholic Christianity Sources of Wisdom & Authority Knowledge Organiser

<u>The Bible</u>

authors. There are many types of writing The Bible is one book, that has many in the Bible.

Old Testament

- Law: Decalogue (10 Commandments) given to Moses.
- **History:** Stories of Jewish history-Abraham, Moses etc.
- **Prophets:** Jonah & the whale, Danie & Lions Den teach us about God.

New Testament

- **Gospels:** Contain stories & teachings of Jesus.
- Christians how to live as God **Letters:** St Paul wrote these teaching
- end of the world. **Revelation:** A book describing the

Interpretation of the Bible

- wrote the Bible. Inspired Word of God: Catholic view- God inspires humans, they
- **Literal Word of God: Creationist** view, believe the Bible word for
- ω contains spiritual not literal truths. allows a closeness to God and **Liberal View: Other Christians view**

The Magisterium

The Magisterium are the leaders of the RC Church.

- **Pope** is the Head of the Church
- Cardinal is a bishop chosen by the Pope
- Archbishop: Head of an arch diocese.
- **lishop:** Head of a diocese.
- **Priest:** is in charge of a Parish

Church today. The Magisterium is a living, teaching office of the

same sex marriage. that didn't exist in the time of Jesus- e.g.- contraception, This means that they interpret the Bible to cover issues

Magisterium." (CCC) SOWA: "Interpreting the Word of God... trusted to the

<u>Second Vatican Counci</u>

This was a large gathering held at the Vatican to discuss teaching & belief in the modern world

Some changes made during the meeting

- Jews no longer blamed for the death of Jesus.
- Mass is said in the local language
- Lay people can take part in Mass

4 Documents produced

- **Lumen Gentium:** Catholic & Protestant relationships.
- Sacrosanctum Concilium: Changed the Mass.
- Dei Verbum: Teachings trom the Bible
- Gaudium Et Spes: Human relationships in society.

Church as the Body of Christ

This links to the teaching that we all have a role to play within the Christian community.

- Laity: The people that attend Mass, follow the Sacraments etc.
- **Clergy:** The people that lead the worship- Magisterium Priest etc.
- pray for the needs of the world. **Religious:** Monks & Nuns who

members" (Corinthians) SOWA: "The body is one & has many

Mary as a Model of the Church

followed God & Jesus throughout her Mary is important to Catholics as she

- role...inseperable from Christ." Mother of God. SOWA; Mary's immaculate Conception & **Joined with Jesus:** Mary is the
- asked without question. Follows **Discipleship:** She does as she is God & Jesus. SOWA: Behold I am
- model of faith & charity. (CCC) She is with her son Jesus at the carrying Jesus and obeys God. Faith & Charity: Mary accepted her faith. SOWA: "Mary is the foot of the cross & never doubts

These are a declaration of the Catholic

- other Christians.
- to Jesus. Allows participation in 7 **Holy:** The Church itself is holy as it links Sacraments.
- shares in it shares the same beliets.
- interpret scripture disciples. Allows for the Magisterium to **Apostolic:** Follows the teachings of the

- the handmaid of the Lord. (Luke)

Four Marks of the Church

- One: There is only one Church, one Body in Christ. Prevents division with
- Catholic: Meaning it is spread throughout the world. Everyone who

Personal & Ethical Decision Making

Jesus is a role model for Christians & they follow his teachings.

- need. SOWA: " your neighbour as Love Others: Take care of those in yourself." (Matthew)
- Forgiveness: This is how we gain forgives those who crucified him." order to be forgiven. SOWA: "Jesus salvation, we must forgive others in
- **Servanthood:** Jesus was the Servant Supper told us to love one another." King- sent to help others. SOWA: "Last
- in need. SOWA: Parable of the Sheep & **Social Justice:** We need to help those Goats. (Matthew)

Philosophy & Ethics: Arguments for the Existence of God

Revelation

God reveals himself to people of in the world.

Types of Revelation

- Natural: God in nature- northern
- **Specific:** Mary to Bernadette.
- **Culmination**: Jesus as becomes Flesh" (John 1) Incarnation. SOWA: "Word

Religious Experiences

Feeling the presence of God

God, Famous example of Saul to Conversion: Life is changed by

wonder. greater than you. A state of awe & Numinous: Feeling of a presence

with God. A prayer being answered **Prayer:** A way of communicating might lead to belief in God. law of nature- See miracles box. Miracle: Something that breaks the

Atheist (non-religious view)

- Don't believe in God so religious experiences cannot come from
- Explain miracles as existing only in peoples minds

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They could be

hallucinations or made up.

2

Visions

A visual appearance usually of Jesus or Mary.

- Moses & Burning Bush: God telling him to set Israelites appearing to Moses &
- SOWA: "Fear not reward for following him Abraham protection & Abraham: God offers be great" (Genesis) Abram...your reward will
- <u>**Transfiguration of Jesus:**</u> Moses, Elijah appear to beloved Son" (Matthew) Jesus. SOWA: "This is my

Non-Biblical Visions:

Joan of Arc- instructed to and burnt at the stake as a force the English from her homeland, she was killed

(Religious view) Lead to belief in God:

- Powerful personal strength & faith. experiences giving
- Allows for visions to be interpreted.

Atheist (non-religious view) Against belief in God

There is often no proof of

Based on our experience of design.

Complements Christian understanding of God.

Miracles

A miracle is something that breaks the law of nature.

Biblical Miracles:

- Jesus turning water into wine (John)
- Moses parting the red sea (Exodus)
- Jesus heals a blind man, (Mark)

Non-Biblical Visions:

- Virgin Mary appearing to Bernadette in Lourdes.
- Virgin Mary appearing to Juan Diego in Mexican City.

Lead to belief in God: (Religious view)

- No scientific explanation therefore has to be God.
- Those who experience it feel they have had a connection with God.

Against belief in God:

Atheist (non-religious view)

- Coincidence
- Science could explain it in the future

Design Argumen

The suggestion that there appears to be design to the world, this must be God.

- Uses the famous watch idea- if a watch is so complex & needs to be designed must also have a designer- this has to the universe is even more complex so
- SOWA: "His eternal power...that have been made" (Romans)

?

Problem of Evil & Suffering

Evil can't exist if God is...

- OmniPotent: All Powerful
- Omniscient: All Knowing.
- If evil exists, God cannot be all of these things. OmnibenEVOLent: All Loving

Natural Evil: Evil caused be nature

- Hurricane
- Tsunami
- Earthquake

Moral Evil: Evil caused by humans.

- Murder
- Assault

Solutions to the Problem of Evil & Suffering

- Job- God allows Job to be tested- gives faith to those who suffer.
- Psalms- Christians can learn from their suffering.

NT- God suffered through Jesus & Christ

- Theoretical: saved us.
- Augustine: Have to have evil to know good.
- Irenaeus: It is how we learn & how we grow.

Practical:

- Charity- Helping others. SOWA: Parable of the Sheep &Goats.
- Prayer: Praying for those in need

Cosmologica Argument

cause & effec that there is a The suggestion scenario. tor every

- Uses a row explanation of dominos as an universe. God is the effect of is God, the universe-this of the be a cause There has to
- SOWA: "His
- made" have been eternal power...tha

Strengths: (Romans

- It is based experience.
- compatible science.

Biology

	<u>Ke</u>	ey Questions	
Key	Questions	Key Answers	
1.	Define the term hormone.	Hormones are chemical messeng	ers which travel in the blood to
		activate cells in target organs.	
2.	Where are hormones produced and secreted from?	Endocrine glands, which make up	the endocrine system.
3.	Which part of the blood are hormones carried in?	Blood plasma.	
4.	For the following glands, what hormone do they produce and what is this hormones function in the human body? - Pituitary gland - Thyroid gland - Pancreas - Adrenal glands - Ovaries - Testes	that bring about change. E.g FSF Thyroid gland- Produces thyroxin heart rate and temperature.	the 'master gland as these recting them to release hormones H, LH, ADH e, regulates rate of metabolism, is used to regulate blood glucose the which is used to prepare the onse. ich is involved in the menstrual
5.	How does the action of nerves and hormones	Nerves	Hormones
	differ?	Fast action	Slower action
		Act for a short time	Act for a long time
		Acts on a very precise area	Acts in a more general way
6.	HIGHER TIER ONLY- What changes does the release of adrenaline cause as the body prepares for 'fight or flight'?	Increased heart rate, increased b	lood pressure, increased blood flow sugar levels by stimulating the liver
7.	Why does adrenaline cause these changes?	So more oxygen and glucose can	get to the cells and increase the
		rate of respiration- so we can figh	nt or flight!
8.	How are thyroxine levels regulated?	Negative feedback	
9.	Explain how negative feedback functions.	When the levels of a certain subs below a normal level, the body tr these levels back to a normal ran	iggers responses to help bring
10.	What happens when thyroxine levels are too low?	The hypothalamus is stimulated thormone (TRH) when levels of the causes the pituitary gland to release. (TSH) which stimulates the productions are the productions.	to produce thyrotropin releasing yroxine are low, and that TRH ase thyroid stimulating hormone
11.	What happens when thyroxine levels are too high?	The release of TRH and the produ the levels of thyroxine in the bloc	od are higher than normal.
12.	What is the menstrual cycle?		nts in which a female releases an
13.	What are the main stages of the menstrual cycles?	egg and prepares the uterus in ca Stage 1- Menstruation starts. The released. Stage 2- The uterus lining is repai implant there. Stage 3- An egg is released from the	red, ready for a fertilised egg to

		Stage 4- The lining is maintained for around 14 days. If n fertilised egg lands on the uterus wall, the lining begins to break down again.
		The whole cycle starts again!
14.	What are the roles of oestrogen and	Oestrogen stimulates the growth of the uterus lining and
14.	progesterone in the menstrual cycle?	progesterone maintains it.
15.	HIGHER TIER ONLY- What are the roles of	FSH causes a follicle and its egg to mature in the ovaries and that LH
13.	FSH and LH in the menstrual cycles?	stimulates the release of an egg (ovulation)
16.	Describe the interaction between oestrogen,	FSH produced in the pituitary gland. It causes a follicle to
10.	progesterone, FSH and LH in the menstrual	mature. It also stimulates the ovaries to produce oestrogen
	cycle.	Oestrogen is produced in the ovaries and causes the lining
	cycle.	to thicken and grow. A high level of oestrogen stimulates ar
		LH surge.
		3. LH is produced by the pituitary gland. The LH surge causes
		the follicle to rupture and the egg to be released
		(ovulation). LH also stimulates the remains of the follicle to
		develop into a structure called the corpus luteum.
		Progesterone is released by the corpus luteum over
		ovulation. It maintained the lining and inhibits the release
		of FSH and LH.
		5. When the level of progesterone falls and there is a low
		oestrogen level, the uterus lining breaks down. This allows
		FSH to increase and allows the cycle to begin again.
17.	How do we remember the order of the	Fat – Old – Ladies- Pump!
	menstrual cycle hormones?	FSH – Oestrogen – LH - Progesterone
18.	What happens to progesterone levels if a	If a fertilised egg implants into the uterus, progesterone levels will
	woman becomes pregnant?	stay high to maintain the lining of the uterus throughout pregnancy.
19.	Define contraceptive.	Something which prevents pregnancy
20.	State hormonal and barrier methods of	Hormonal Barrier
	contraception.	Combined/ mini pill Condom
	•	Contraceptive injection Diaphragm
		Contraceptive patch/ implant
21.	How do barrier methods prevent pregnancy?	They but a barrier between the sperm and egg so they do not meet.
	now do barrier methods prevent pregnancy.	Therefore, the egg cannot be fertilised.
22.	How do oestrogen and progesterone prevent	Oestrogen- Prevents egg from being released. If it is taken every day
	pregnancy?	to keep levels high, it inhibits FSH production and egg maturation
	F0.	and therefore egg release is stopped.
		Progesterone- It stimulates the production of thick cervical mucus
		which prevents sperm getting through the cervix and reaching an
		egg. Some progesterone-only contraceptives can also prevent egg
		maturation.
22		
23.	State two ways of treating infertility and	Clomifene therapy- If women are infertile because they don't
23.	State two ways of treating infertility and explain how they aid pregnancy.	ovulate at all (or regularly). They can take a drug called clomifene,
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24.25.26.	Evaluate methods of contraception. What is homeostasis? Why is homeostasis important in the human body?	ovulate at all (or regularly). They can take a drug called clomifene, which causes more FSH and LH to be released, stimulating egg maturation and ovulation. IVF- This involves collecting eggs from women's ovaries and fertilising them in a lab using a male's sperm. The fertilised eggs are then grown into embryos. Once the embryos are large enough, they are transferred into a female's uterus. This is an example of Assisted Reproducive Technology (ART). The most effective form of contraception depends on an individual and their lifestyle. Hormonal methods when used correctly are more effective. Hormonal methods can have unpleasant side effects such as headaches, acne and mood changes. Hormonal methods do not protect against sexually transmitted diseases. It is the regulation of the conditions inside your body (and cells) to maintain a constant internal environment, in response to changes in both internal and external conditions. Conditions in the body have to kept steady in order for body cells to function properly.
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	Thermoregulation (regulating body temperature)- you need to increase your body temperature when it's too cold and decease it when you are too hot. Blood Glucose regulation- more on that below!
28. What is glucose and why might your blood	Glucose is a type of sugar. It may vary as eating foods that contain
glucose levels vary?	carbohydrates puts glucose into the blood. The normal metabolism
	of cells removes glucose from the blood. Vigorous exercise removes
	much more glucose from the blood.
29. How is excess glucose stored in the body?	As glycogen in the muscles and the liver.
30. Which part of the body monitors blood glucose?	Pancreas.
31. Explain what happens when blood glucose is too high.	 A person's blood glucose rises (perhaps due to eating a meal containing carbohydrate). This rise is detected by the pancreas. The pancreas responds by producing insulin (a hormone), which is secreted into the blood. Insulin causes body cells to take up more glucose from the blood. Cells in the liver and muscles can take up glucose and convert it into the storage molecule glycogen. This causes blood glucose level to fall.
32. HIGHER TIER ONLY- Explain how blood glucose concentration is regulated by glucagon.	 If a person's blood glucose decreases, the fall is detected by the pancreas. The pancreas responds by producing the hormone glucagon, which is secreted into the blood. Glucagon causes the glycogen stored in the liver and muscles to be converted into glucose, which enters the blood. This causes blood glucose levels to rise.
33. Using what form of feedback cycle is blood glucose regulated?	Negative feedback. Glucagon works with insulin to control blood glucose levels.
34. How is type 1 diabetes caused?	The pancreas of sufferers produces little to no insulin. This means that blood glucose can rise to a level which can kill them.
35. How can type 1 diabetes be controlled?	Insulin therapy which usually involves injecting insulin into the blood. They can also limit their intake of simple carbohydrates and exercising regularly.
36. What is the cause of type 2 diabetes?	The pancreas does not produce enough insulin or a person may become resistant of their own insulin. This means that blood glucose can rise to a level which can kill them.
37. How can type 2 diabetes be controlled?	It can be controlled by eating a healthy diet, getting regular exercise and losing weight if needed. Some people may require insulin therapy.
38. What is the relationship between type 2 diabetes and obesity?	There is a positive correlation between the two factors. It means that obese people have an increased risk of developing type 2 diabetes.
39. What is the calculation for BMI? B5 link	BMI= weight (kg) (height (m)) ²
40. What is the calculation for waist-to-hip-ratio? B5 link	Waist-to-hip ration= waist circumference (cm) hip circumference (cm)

Chemistry

Key Questions Groups in the Periodic Table

	Groups in	n the Periodic Table
Key (Questions	Key Answers
1.	Describe the relationship between group number and position in the Periodic Table using group 1,7 and 0 as examples.	Group number tells us how many outer shell electrons the element has. Group 1 have 1 electron in their outer shell. Group 7 have 7 electrons in their outer shell. Group 0 have a full outer shell.
2.	Describe the physical properties (appearance, density etc) of the group 1 alkali metals.	Group 1 metals are soft, low density, shiny when cut and have high melting and boiling points. They conduct heat and electricity.
3.	Describe the observations seen when lithium, sodium and potassium react with water.	Lithium -floats, fizzes, dissolves. Sodium – floats, more vigorous fizzing, may see an orange flame, dissolves. Potassium – pops/crackles/explodes, more violent reaction, purple flame seen.
4.	Write the word equations for lithium, sodium and potassium reacting with water.	Lithium + water → lithium hydroxide + hydrogen Sodium + water → sodium hydroxide + hydrogen Potassium + water → potassium hydroxide + hydrogen
5.	Write the symbol equations for lithium, sodium and potassium reacting with water.	2Li + 2H2O → 2LiOH + H2 2Na + 2H2O → 2NaOH + H2 2K + 2H2O → 2KOH + H2
6.	Describe the reactivity of the lithium, sodium and potassium and suggest how rubidium will react with water.	Reactivity increases down group 1 so lithium is the least reactive and potassium most reactive. Rubidium will be even more reactive so like to explode on reaction with water.
7.	Explain the pattern of reactivity of the alkali metals by referring to their electronic configurations.	Reactivity increases going down group 1 because the electron in the outer shell becomes further away from the nucleus so is less attracted and is lost more easily.
9.	Give the colours and states of chlorine, bromine and iodine at room temperature.	Chlorine – pale green gas, bromine- orange/brown liquid, iodine – grey solid
	Describe the pattern in the physical properties of the halogens and then predict the appearance of astatine.	Going down the group, halogens turn from gas→solid, colours become darker and melting/boiling points and density all increase. Astatine will therefore be a black solid.
10.	Describe the test for chlorine	Place some damp blue litmus paper into a test tube of chlorine gas. It will turn red, then bleach white.
11.	Give the general word equation for a halogen reacting with a metal.	Metal + Halogen → Metal Halide
12. 13.	Write the word and symbol equation for sodium reacting with chlorine. Write the word and symbol equation for	Sodium + Chlorine → Sodium Chloride 2Na + Cl ₂ → 2NaCl Potassium + Bromine → Potassium Bromide
14.	potassium reacting with bromine. Give the general word equation for a halogen	2K + Br ₂ → 2KBr Hydrogen + Halogen → Hydrogen Halide
15.	reacting with hydrogen. Write the word and symbol equation for	Hydrogen + Chlorine → Hydrogen Chloride
16.	hydrogen reacting with chlorine. Name the type of solution formed when a hydrogen halide dissolves in water.	H₂ + Cl₂ → 2HCl An acidic solution is formed
17.	Give the ionic equation for HCl dissolving in water.	HCl → H ⁺ + Cl ⁻
18.	Describe the reactivity of chlorine, bromine and iodine using ideas about displacement reactions with halide solutions.	Chlorine more reactive than bromine and iodine. Bromine more reactive than iodine. Cl>Br>I. Chlorine will displace bromide and iodide from solution. Bromine will displace iodide from solution.
19.	Write the word and symbol equations for the reaction of chlorine with sodium bromide.	Chlorine + Sodium Bromide → Sodium Chloride + Bromine Cl ₂ + 2NaBr → 2NaCl + Br ₂
20.	Write the word and symbol equations for the reaction of bromine with potassium iodide.	Bromine + Potassium Iodide → Potassium Bromide + Iodine Br ₂ + 2KI → 2KBr + I ₂
21.	Use the following ionic equation to explain why displacement reactions are redox reactions. State which species is oxidised and which one is reduced. Cl ₂ + 2Br ⁻ → Br ₂ + 2Cl ⁻	Chlorine atoms gain electrons to become chloride ions. This is Reduction. Bromide ions lose electrons to become bromine atoms. This is Oxidation. These reactions happen at the same time hence this is a REDOX reaction.
22.	Using ideas about electronic configuration, explain the reactivity of the halogens.	Halogens have 7 outer shell electrons and so want to gain 1 to become stable. Reactivity decreases going down the group because it becomes harder to attract an electron due to shielding and less attraction to the nucleus.
23.	Explain why the Noble Gases are unreactive using ideas about their electronic structure.	Noble gases are unreactive because they have a full outer shell of electrons so are stable and don't take part in reactions.
24.	Explain why argon is used in lightbulbs.	Argon is unreactive and non-flammable so will not react with the metal filament

metal filament.

balloons and airships can float.

colourless gas at room temperature.

Helium has a very low density and so is less dense than air so

They are all colourless gases at room temperature with low

densities, low melting and low boiling points. Xenon will also be a

25.

airships.

properties of xenon.

Explain why helium is used in balloons and

helium, neon and argon and predict the

Describe the pattern in physical properties of

Ke	ey Questions
	Metals
Key Questions	Key Answers
Describe how the observations made during	Similar to lithium, potassium will float on the surface of the water
the reaction of potassium with water,	and will fizz. Potassium will, however, react more vigorously and there will be a purple flame
would be different to lithium reacting with	there will be a purple name
water. Explain why these differences occur.	The differences occur because potassium is more reactive than lithium
Explain how a displacement reaction is a	During a displacement reaction, the less reactive metal will gain
redox reaction, in terms of the loss and	electrons and the more reactive metal will lose electrons. This
gain of electrons	means that the more reactive metal is oxidised and the less reactive
J	metal is reduced.
Describe what the reactivity series tells us	e.g. K + Li ⁺ → K ⁺ +Li The relative reactivity of metals
State where most metals are found	In the Earth's crust
Describe how the reactivity series relates to	Unreactive metals are found in their native state, reactive metals are
how metals are found in the Earth's crust	found as compounds
Define <i>oxidation</i> and <i>reduction</i> in terms of	Oxidation is the reaction of something with oxygen, reduction is the
oxygen	removal of oxygen from a compound
State whether metals are removed from	Reduction
their ores by reduction or oxidation	Reduction
Explain how the method used to extract	If a metal is below carbon in the reactivity series, then heating with
metals from their ores is dependent upon	carbon can be used to reduce the metal. If it is above carbon, then
its position in the reactivity series	electrolysis must be used.
Describe two alternative biological methods of metal extraction	Bioleaching and phytomining are two alternative methods. They are classed as biological because bioleaching uses bacteria and phytomining uses plants. During the bioleaching process, bacteria is used to break down the minerals in the ore into metal containing compounds. These are found in a solution produced by the bacteria which is called the leachate. Phytomining is the growing of plants on soils that are low grade ores. The plants absorb mineral ions through their roots and
	concentrate them in their cells. These plants can be harvested and burnt. This leaves an ash containing metal compounds which can be further processed. The metal compounds are reduced using iron or another more reactive metal in a displacement reaction. This leaves the desired pure metal.
Explain why copper is more resistant to oxidation than iron	Iron is higher in the reactivity series and therefore will react with oxygen more readily
Describe the economic, social and	Recycling creates jobs and can benefit the economy. Recycling
environmental advantages of recycling	reduces the need for mining which means fewer quarries will be used which cause noise, dust, traffic and the destruction of animal
metals	habitats. Recycling also ensures that the natural reserves of metal do not run out.
State the four main steps in a life cycle assessment	Extraction and processing of the raw materials Manufacture and packaging of the product Use of the product Disposal of the product
Construct a life cycle assessment for plastic vs paper straws	Raw materials: Plastic is made from oil which is finite, paper can be made from recycled materials. Both require a lot of energy to produce.
	Manufacture of the product: plastic will be quicker and cheaper to produce straws as the paper straws need to be glued

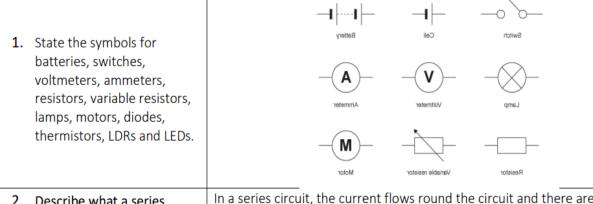
	Use of the product: plastic straws could be reused many times but paper straws are only used once
	Disposal of the product: both could be recycled. Paper straws are biodegradable which means they cause much less damage due to littering and landfill
Describe what a reversible reaction is	A reaction in which the forward and backwards reactions happen at the same time. This is because the products can react together to form the original reactants.
Give the symbol for a reversible reaction	\rightleftharpoons
Explain what is meant by dynamic equilibrium	When the rate of the forward and backwards reactions are equal, and the concentrations of all reactants stays constant.
Show the formation of ammonia using word and symbol equations	Nitrogen + hydrogen \rightarrow ammonia N ₂ + 3H ₂ \rightarrow 2NH ₃
State the conditions used for the Haber process	200 atmospheres of pressure 450C temperature Iron catalyst
In the Haber process, the reverse reaction is endothermic. Given this, predict how the position of equilibrium will be affected by	There will be a lower yield of ammonia/equilibrium will favour the reverse reaction
an increase of temperature	There will be a greater yield of ammonia/equilibrium will favour the
Predict how the position of dynamic equilibrium is affected by an increase in	forward reaction
Predict how the position of a dynamic equilibrium is affected by increasing the concentration of reactants.	Equilibrium will shift AWAY from whatever you are increasing the concentration of. E.g. in the Haber process, increasing the conc. Of ammonia will

Physics

Year 11 Module 1 – Key Questions Part 1: Material Properties

	Key questions	Answers
1.	Describe what happens to mass in a physical change.	In physical changes (melting, freezing, evaporating, boiling, condensing and sublimation) mass is conserved.
2.	Define specific heat capacity.	Specific heat capacity is the energy required to raise the temperature of 1kg of a material by 1°C.
3.	Define specific latent heat.	Specific latent heat is the energy needed to change the state of 1kg of a substance (go from a solid to a liquid or a liquid to a gas).
4.	Describe what we did in the specific heat capacity practical.	In the specific heat capacity practical, we put an electric heater into an insulated beaker of water and measured the temperature change. We then use the specific heat capacity formula ($E=mc\Delta\Theta$) to find the specific heat capacity.
5.	How can we reduce heat loss?	We can reduce unwanted heat transfer by thermal insulation.
6.	Explain what causes pressure in a gas,	Pressure in caused by collisions between the particles in a gas and the container.
7.	Explain what happens to pressure if we increase temperature of a fixed mass of gas at a constant volume.	If we increase the temperature of a gas, we increase the kinetic energy and therefore velocity of the particles. This means that they collide with container walls with more force, which increases the pressure.
8.	What is absolute zero?	At absolute zero (-273°C), particles do not vibrate.
9.	How do we convert between kelvin and degrees Celsius?	To convert from Kelvin to degrees Celsius, we minus 273.
10.	What does elastic mean?	If the distortion is elastic, the object will return to the original length.
11.	Recall the equation for force on a spring.	Force (N) = spring constant (N/m) x extension (m)
12.	What does linear mean?	If a relationship is linear, the line of best fit will be a straight line as they are proportional.
13.	Describe what we did in the Hooke's law springs practical.	In the springs core practical, we added masses to a spring to increase the force and measured the extension. We found that force is directly proportional to extension (increase by the same ratio).
	Voor 11	Modulo 1 Koy Oyostians

Year 11 Module 1 – Key Questions Part 2: Electricity



2. Describe what a series circuit, the current flows round the circuit and there are no junctions (where the current splits).

Describe what we use a voltmeter for.	A voltmeter measures the potential difference (voltage) in a circuit and is connected in parallel.
Recall the potential difference equation.	Energy transferred (J) = charge (C) x potential difference (V).
Describe what we use a ammeter for.	An ammeter measures the current in a circuit and is connected in series.
Describe what current is.	Current is the rate of flow of charge in a circuit. In a wire, it is the rate of flow of electrons.
Recall the current equation.	Charge (C) = current (A) x time (s).
Explain what happens to current when resistance increases.	If we increase the resistance of a circuit, we reduce the current.
Recall the resistance equation.	Potential difference (V) = current (A) x resistance (Ω).
Explain how resistance changes in series and parallel circuits.	If 2 resistors are in series, the total resistance increases. If the 2 resistors are in parallel, the resistance decreases.
Describe the Ohm's Law experiment.	In the Ohm's law experiment, we used a variable resistor to change the current in the circuit and measured the potential difference.
Describe the shape of the 3 IV graphs	The resistor graph is linear, the bulb is a curved 'S' shape and the diode is flat on one side then increases linearly on the other.
Explain the shape of the bulb IV graph	As temperature increases, ions in the wire vibrate faster. More collisions occur between the electrons and the ions so the resistance increases
Describe how the resistance of an LDR changes with brightness	As the brightness on an LDR increases, the resistance decreases (BIRD).
Describe how the resistance of a thermistor changes.	As temperature goes up, the resistance of a thermistor decreases (TURD).
Explain why wires get hot.	Electrical energy is dissipated as thermal energy in the surroundings when an electrical current does work against electrical resistance.
Describe how energy is wasted in a wire.	When a current moves through a wire, it gets hot due to collisions between the electrons and ions in the lattice.
Describe how we can reduce energy wastage in wires.	We can reduce energy wasted by using low resistance wires.
State the formula for power and potential difference.	Power (W) = current (A) x potential difference (V).
State the formula for power and resistance.	Power (W) = current ² (A) x resistance (Ω).
Explain the difference between a.c. and d.c.	In direct current (d.c.) the electrons move in one direction only. In alternating current (a.c.) the electrons change direction.
Recall the frequency and voltage of mains electricity.	The frequency of the UK domestic ac supply is 50Hz and the voltage is 230V.
Explain why we use earth wires.	Earth wires are used in appliances with metal cases to prevent electric shocks if there is a fault by diverting current through the fuse.
Explain how fuses work.	Fuses melt when the current exceeds the rating of the fuse to prevent high current flow.
Describe the live wire.	The live wire is brown and is connected to the bottom right pin. It has a potential difference of 230V.
Describe the neutral wire.	The neutral wire is blue and is connected to the bottom left pin. It has a potential difference of OV.
	Recall the potential difference equation. Describe what we use a ammeter for. Describe what current is. Recall the current equation. Explain what happens to current when resistance increases. Recall the resistance equation. Explain how resistance changes in series and parallel circuits. Describe the Ohm's Law experiment. Describe the shape of the bulb IV graph Explain the shape of the bulb IV graph Describe how the resistance of an LDR changes with brightness Describe how the resistance of a thermistor changes. Explain why wires get hot. Describe how energy is wasted in a wire. Describe how we can reduce energy wastage in wires. State the formula for power and potential difference. State the formula for power and resistance. Explain the difference between a.c. and d.c. Recall the frequency and voltage of mains electricity. Explain why we use earth wires. Explain how fuses work.

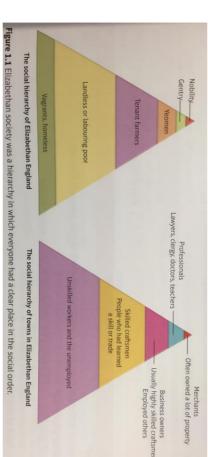
EARLY ELIZABETHAN ENGLAND 1558-88



Key people	
Sir Francis Drake	Famous for circumnavigating the globe and defeating Spanish
	Armada.
Francis, Duke of	Heir to the French throne, Elizabeth offered a marriage alliance in
Anjou/Alencon	1570 and gave him £70,000 in 1581 to support the Protestant rebels
	in the Netherlands.
Francis Walsingham	Elizabeth's top spymaster. Exposed the Babington Plot.
Mary Stuart (Queen	Elizabeth's cousin, forced to abdicate Scottish throne, executed by
,	
Mary Tudor (Mary I)	Elizabeth's half sister, previous Queen of England, Catholic and famous for burning 300 protestants.
King Philip II of Spain	King of Spain, strong Catholic, previously married to Mary I (E's sister)
Robert Dudley (Earl	Member of Privy Council. Close friend of Elizabeth, marriage
of Leicester)	candidate.
Sir Walter Raleigh	Famous explorer and favourite of Queen Elizabeth
Thomas Howard,	Powerful noble, involved in the Revolt of the Northern Earls and the
Duke of Norfolk	Ridolfi Plot. Executed in 1572.
William Cecil, Lord	Queen Elizabeth's closest advisor. Secretary of State.
Burghley	
Chief Wingina	Local native American chief in Roanoke killed by English settler
	Ralph Lane.

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Elizabeth I



	Timeline	Timeline of key events 1558 Elizabeth becomes Queen of England
		Treaty of Cateau-Cambresis signed ending war with France started b giving up Calais
		Elizabeth's religious settlement (Act of Supremacy, Act of Uniformity of
		Injunctions)
	\Box	Treaty of Edinburgh – a protestant uprising in Scotland, supported by I
		ended. Mary Queen of Scots returned to Scotland.
		Statute of Artificers – imprisonment for refusal to pay poor relief
	\dashv	Vestment Controversy - Archbishop Matthew Parker publishes 'Book o
		Advertisements' showing clergy what vestments to wear
	_	England's first permanent theatre is opened – The Red Lion in London
	_	Duke of Alba & 10,000 men sent to defeat Dutch Revolt. Council of Tro
		set up to enforce Spanish rule of Netherlands.
		Mary QoS abdicated for her son James VI and fled to England.
		Revolt of the Northern Earls – Dukes of Northumberland & Westmoreland
		against Elizabeth. Revolt defeated, 450 executed.
		Pope issues Papai Bull – Elizabeth is excommunicated
		Ridolfi Plot – plan to launch Spanish invasion & put Mary on the throne. Norfolk
		execuled 13/2.
		Treason Act passed – it was treason to claim that the Queen was a here
	┞	copy of the Papal Bull
	_	Drake hired as privateer by Elizabeth. Captured £40,000 Spanish silver.
		Vagabonds Act – Established national poor rate among other changes
		Spanish Fury – Spain's forces mutiny after no pay, 17 Dutch provinces sign the
		Pacification of Ghent demanding independence. Elizabeth sends £100
	\perp	Poor Relief Act – Houses of Correction set up for unemployed.
	_	Jesuits arrive in England from Europe
	ot	Drake circumnavigates the globe, returned with £400,000 Spanish treas
		Recusancy fines increased to £20
 		Throckmorton Plot – French Duke of Guise to invade with Papal support
		Treaty of Nonsuch Elizabeth signed with Dutch rebels putting England at war with
\bot	1	Spain in the Netherlands.
\bot		Raleigh's failed attempt to colonise Virginia
١.,		Babington Plot is discovered by Walsingham, proved Mary's involvement
\downarrow		Trial and execution of Mary Queen of Scots
_	1500	Spanish Armada is defeated

Key words	
Algonquian	The language spoken by the native Americans in Virginia
Astrolabe	Used stars to calculate the ships position in navigation
Circumnavigate	Travel around (the globe)
Clergy	People ordained by the Church e.g. priests, bishops etc.
Colony	A country or area that is controlled by another e.g. Roanoke
Enclosure	A process where open fields were enclosed by hedges or fences
English Reformation	Henry VIII, Elizabeth's father, created the protestant Church of
	England, breaking away from the Catholic Church
Excommunicated	Excluded from the Catholic Church by the Pope
Galleons	New ships which were larger, more stable and more cannons
Gentry	A class of people below the nobility, often landowners
Justices of the Peace	Kept law and order in local areas
(JPs)	
Lords Lieutenant	Each county had one, in charge of raising and training militia (army)
Mercator map	New map designed by Gerardus Mercator using lines of latitude
	and longitude made navigation easier.
Nobility	Powerful landowners, members of the aristocracy - usually a Duke,
	Earl, Lord etc.
Papal Bull	A official order issued by the Pope
Parliament	Passed laws and raised extraordinary taxation.
Petty schools	Run in a teacher's home for young boys. Dame schools for girls.
Privy Council	Responsible for the day-to-day running of the country. Most
	powerful people.
Poor relief	Financial help for the poor paid for by the poor rate (tax)
Privateer	A pirate commissioned by the Queen to raid rival ships
Puritan	An extreme protestant
Recusant	Someone who refused to attend Anglican services.
Royal Court	People who lived in and around the monarch
Royal prerogative	Areas of law that only the monarch could decide on
Secretary of State	Most important Privy Councillor – William Cecil
Supremacy	Elizabeth was the Supreme Governor of the Church of England
Vagabond/Vagrant	A homeless, unemployed person
Vestments	Special clothing that Catholic clergy wear.
Visitations	Inspections of churches and clergy by bishops
Yeomen	Small farmers, the class below gentry

Some key questions

How did education change?

- Literacy rates increased 10%
- By 1577 all towns had a grammar school.
- Skilled craftsmen and yeomen trained through apprenticeships
- 1571 Elizabeth founded Jesus College, Cambridge

Why did poverty increase?

- Population growth of 35%
- Rising prices, wages falling behind
- Sheep farming led to enclosure
- Enclosure took common land

Why was Drake's circumnavigation of the globe significant?

- Proved England was a great seafaring nation.
- Encouraged other exploration and colonisation e.g. Humphrey Gilbert.

 Drake claimed 'Nova Albion' near
- Damaged Anglo-Spanish relations

San Francisco for the Queen

Why did colonising Virginia fail?

- Voyage left too late to plant crops, The Tiger got a breach in the hull.

 Expectations vs reality not willing to
- Expectations vs reality not willing to work hard, poor co-operation, ill disciplined soldiers, not enough farmers.
- Native Americans Local Chief unpredictable, tired of demands, believed English were cursing them through new diseases. English killed the Chief.

How did Elizabethans spend their leisure time?

- Lower classes played football, violent
 Rear baiting dogs attacked bears
- Bear baiting dogs attacked bears
- Cock-fighting
- Literature Latin and Greek classics
 Thought Company and Company and
- Theatre 2000 people queued
 Music and dancing lutes
- Music and dancing lutes, harpsichords, bagpipes and fidales
- Why was the Spanish Armada defeated?
- Superior ship design (galleons)
- Spanish supply issues
- Poor Spanish planning and communication
- English tactics e.g. fire ships before the Battle of Gravelines
- Bad weather

Why did England go to war with Spain?

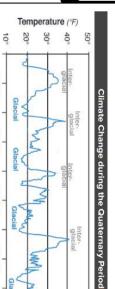
- Religious differences
- English support of the Dutch rebels in the Spanish Netherlands from 1585
- Spanish support of plots against Elizabeth e.g. Ridolfi
- Elizabeth's privateers raiding Spanish ships and settlements, e.g. Drake



clips by scanning or clickin Find a playlist of explaine the QR code **CLICK ME**



5.1.1 - Climate change evidence



<u>Weather, climate</u>

<u>and ecosystems</u>

400,000

300,000

200,000

100,000

of cooling and warming. The periods of time the average global temperature was interglacials below 15°C are known as glacials, and periods of warmth are known as Over a long period of time (the last 400,000 years) there have been natural cycles Years Ago

Evidence for climate change



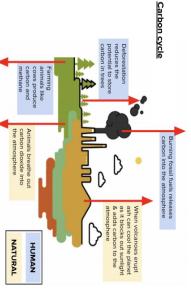
the atmosphere have changed over the last 420,000 years Ice cores from the Antarctic show the amount of CO₂ and methane in

Historical records, such as diary extracts

CO₂ levels in the atmosphere

0.6°C over the past 100 years Measurements by the met office show temperature has increased by

5.1.2 - Climate change causes



Greenhouse effect



but humans have worsened the up more heat is stored, warming which trap heat in the Methane are greenhouse gases atmosphere. As more gases build impacts. Carbon Dioxide and The greenhouse effect is natural

Geography Knowledge Organiser Weather hazards

Hadley cell Hadley cell Ferrel cell Slobal circulation Polar cell Ferrel cell Hadley cell Hadley cell

- At the equator insolation heats the Earth which heats
- This air eventually cools and sinks at about 30° north and south
- intertropical convergence zone ITCZ)
- This air then returns to the equator (known as the

28 schools used as evacuation centres Blankets & tents given to those made homeless Repairs to infrastructure to provide safe drinking water Emergency aid sent by Australia, Fiji, New Zealand and UK

153 temporary school built

Tropical storm responses (CYCLONE PAM 2015)

- Hot air rises creating low pressure as it rises it travels
- north/south of the equator this creates high pressure

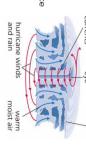
Gentle winds in the atmosphere to draw air up from water surface Ocean temperatures of at least 27°c Water depth of at least 50 meters Tropical storms can only form over large/deep oceans Occurred near the island chain of Vanuatu in the South Pacific Tropical storm effects (CYCLONE PAM 2015)

ropical storm causes (CYCLONE PAM 2015)

11 people died

90000 homeless Hospitals and schools destroyed

Stormsurge flooded coastal areas and contaminated freshwater supplies Widespread destruction of fruits, vegetables, root crops and livestock



a heat wave.

high pressure systems to sit over the state creating pushing low pressure systems north and allowing

convection Tropical storm cross section

it cannot rise any further and moves north and south. The edge of the atmosphere is

Warm air rises because it is less dense. When it reaches the edge of the atmosphere cold and so the air cools too. Low pressure can create a hazard called a tropical

Low pressure & tropical storms

storm, which is also known as a hurricane, cyclone or typhoon

cool dense Drought causes (CALIFORNIA 2012) The jet stream was further north that normal,

hazard called a drought - a long period of no available water due to intense heat. air moves back to the ground. This is called HIGH PRESSURE. As the air reaches the As the air cools in the outer atmosphere it becomes heavier and starts to sink. This surface it starts to warm again and the cycle continues. High pressure can produce a

High pressure & droughts

Drought effects (CALIFORNIA 2012)

Crops could not be grown and 17,000 agriculture jobs were lost Fish died as high temps caused an oxygen decrease Hydroelectric power dams stopped producing electricity

Drought responses (California 2012)

400,000 water saving toilets installed 12,500 water metres installed in homes

3.2 million square feet of turf removed. 50% of Orange County's water supply is now imported from other areas.

Homes were destroyed by wildfires A hosepipe ban was introduced

5.2.2 - UK weather variations

Climate - the weather of a place averaged over a period of time, often 30 years **Weather** - the conditions of the atmosphere over a short period of time, often a day

Factors affecting Climate in the UK



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dlp

decrease by 1°C for every 200m of elevation. **Altitude** – mountain areas have cooler temperatures. Temperatures Latitude —the north of the UK has cooler temperatures than the south

Different winds directions also bring different air masses: keeping the climate milder in winter and cooler in summer. Ocean currents – the North Atlantic drift brings warmer water to the UK,

Am Northerly brings arctic air (cold and snow in winter) Tc South easterly brings tropical continental (warm and dry) Pc Easterly brings polar continental (cold and dry) **Im** South westerly brings tropical maritime (mild and wet) **Pm** North westerly brings polar maritime air (cool and showery)

forming clouds Air rises, cools and condenses Brings rain, cloud and wind

Begin in the Atlantic and move east

<u>.ow Pressure (depressions)</u>

High Pressure (anticyclone)

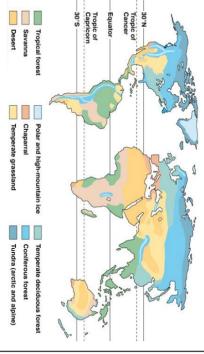
Low wind speed, stable conditions with no

In summer they bring hot weather, which may lead to drought

In winter they bring cold (frosty) nights

Shelter - Buildings, trees and hills can shelter from the wind **Buildings** - Buildings store up heat and redirect wind direction Surface (albedo) - dark surfaces heat up quicker than light surfaces Physical features - hills, trees can block the wind and sun. Water cools the air **Aspect** - locations facing south have sun all day, the north doesn't receive sunlight

5.3.1 - Ecosystems



Large scale **ecosystems** are known as **biomes**

Rainforests contain about 40 to 50% of the Regulating climate and air quality

carbon in the biomass, and very little in the Preventing Soil Erosion

soil due to the rapid nutrient cycling

nutrients that are easily absorbed by plant into the atmosphere and forms clouds to

make the next day's rain.

falls - much of it at the canopy level. As the

rainforest heats up, the water evaporates ground and the rain is intercepted as it

hot, damp conditions on the forest floor

The rainforest nutrient cycling is rapid. The The roots of plants take up water from the

plant material. This provides plentiful allow for the rapid decomposition of dead **Canopy.** This is where the upper parts of most of the trees are found. The canopy is

Under canopy. It is the second level up. There is limited sunlight. Saplings wait here

Shrub layer. It is dark and gloomy with very little vegetation.

5.3.2 - Ecosystem processes

typically about 65 to 130 feet (20 to 40 metres) tall.

higher, and so are able to get more light than the average trees in the forest canopy.

Emergents. These are the tops of the tallest trees in the rainforest. These are much

for larger plants and trees to die

roots

becomes the most important factor **Temperature** – when rainfall is reliable and distributed evenly temperature **Rainfall** – the amount and patterns determine the distribution of biomes Climate – the most important factor in determining their distribution

Other factors can also have an influence e.g.

conditions allow continuous growth of plants Tropical rainforests are located either side of the equator where hot and wet

level of biodiversity than savannah

which is considered to be important and desirable. The tropical rainforest has a higher

Biodiversity is the variety of plant and animal life in a particular habitat, a high level of

Biodiversity

Flood prevention

Provisioning Goods (food, fuel)

Savanna characteristics

. ယ

.2 - Ecosystem processes

and a dry season in the winter when only a couple of inches of rain may fall. precipitation. There is a rainy season in the summer with around 15 to 25 inches of rain Rainy and dry seasons - Savannas have two distinct seasons in regards to **Warm** - The savanna stays pretty warm all year. savanna that thrive on the abundance of grass and trees Large herds of animals - There are often large herds of grazing animals on the **Grasses and trees** - The savanna is a grassland with scattered trees and shrubs.



soil when vegetation burns.

Nutrients are cycled quicky during the dry All most all rain falls during the rainy common and nutrients are returned to the stores this water for the dry season. Little season. Vegetation quickly absorbs and leaves and low surface area of the plants water is lost by transpiration due to waxy

Majority of carbon is stored in vegetation releasing CO₂ into the atmosphere. seasons, wildfires can burn vegetation, with a lesser amount in soil. During dry Carbon cycle

Provisioning Goods (food, fuel) **Preventing Soil Erosion** Carbon Storage

Small scale ecosystem: sand dunes

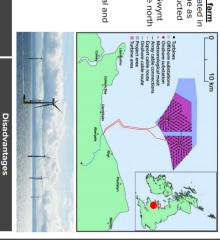
prevailing winds which blow on-shore. They are formed through a processes known as and now more fragile plants will start to grow. succession. As plants die and decompose it nourishes the soil making it better quality Sand Dunes are a build up of sand around vegetation. This requires loose sand and

.4.1 - Human uses

and do not impose on the sea close to the shoreline as coast of Wales y Môr is located 15km off the north cities/population as much. Gwynt winds are stronger, unobstructed Offshore wind farms are located in Gwynt y Môr offshore wind farm

gas are depleting energy is increasing as non-renewables such as coal and The demand for renewable

Water cycle



rainforest communities.

Small-scale farming provides food for the country and provides food and jobs Large-scale farming brings money into sold for a good price abroad. such as ebony and mahogany, can be

Produces power for 400,000 homes

Creates 100+ jobs

RSPB says it affects bird migrations and

can result in endangering animals and trees are cut down. Hence, deforestation

plant life, or even causing them to

Loss of animal habitat occurs when

the forest is cleared

possible are quickly washed away when **Loss of fertile soils** that make farming deforestation.

transportation and mining can lead to Land clearance for farming,

their normal routines

heritage and tourism National Trust has concerns over affecting

Helps with global climate change efforts Locals are opposed as it spoils the natural

.4.2 - Human impacts

Advantages:

Infrastructure, hospitals and education

Tropical rainforest uses

Advantages:

can be improved

Raw materials, eg tropical hardwoods

Raw materials, eg fuel (firewood) Small-scale farming provides food for rainforest communities.

and for rearing cattle. turned into farmlands for growing crops Large areas of grassland have been Animals have been **hunted** for their

the forest is cleared. possible are quickly washed away when **Loss of fertile soils** that make farming valuable body parts or for sport



















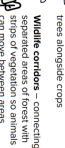
5.4.3 - Ecosystem management

Tropical rainforest management

Selective logging – only cutting from sustainable timber. down older trees and not rare people aware of products made Stewardship Council makes species. The International Forest



Agro-forestry – growing new trees alongside crops







over-exploitation protect their rainforests from debts which LICs have, if they **Debt-swaps** – HICs cancel

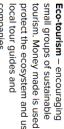




protect the ecosystem and uses tourism. Money made is used to



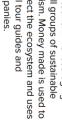


















separated areas of forest with







Home study questions

DEVELOPING

Savanna management

different crops and giving the Crop rotation - growing planting to allow soil to recover land time to rest between nutrients



Afforestation – planting more trees to protect the soil



Drought-resistant crops –

Planting genetically modified crops which can withstand long periods of water shortage





SECURING

Give three ways that humans have influenced the carbon cycle [3 marks] **Describe** the economic effects of a low pressure hazard [3 marks]

Analyse the pattern of temperature change over the last 450 million years (5.1.1) [6 marks]

MASTERING

Discuss how sustainable the use of one ecosystem is [8 marks]

CHALLENGE

Decide how deforestation would affect the nutrient, water and carbon cycles in the tropical rainforest - present your decision as a paragraph or concept map

Spanish

¿Cómo es tu ciudad? ¿Cuál es tu ciudad favorita? ¿Qué hay para turistas en tu zona?

Mi ciudad se llama X (My city is called X) Mi ciudad favorita es X (My favourite city is X)	está (It is)	situada en un valle/al lado del río (situated in a valley / next to a river) rodeada de sierra (surrounded by mountains) en la costa (on the coast)
	el clima es (the climate is)	soleado (sunny), seco (dry), frío (cold), variable (variable)
	hay (There is/there are)	mucha marcha (lots going on) muchos bares y restaurantes (lots of bars and restaurants) monumentos y museos (monuments and museums) muchas tiendas (many shops) un mercado grande (a big market)
En mi ciudad, hay muchas cosas para turistas (In my city there are lots of things for tourists)	Aquí se puede (here you can)	subir a la torre (climb a tower) / esquiar (ski) disfrutar de las vistas (enjoy the views)
	Aquí se pueden (here you can)	probar platos típicos (try typical dishes) practicar deportes acuáticos (practice water sports)

¿Qué harás en tu ciudad este fin de semana?

"If" phrase	Verb	Connective + verb	Adjective
Si hace calor (If it's hot) Si hace frío (If it's cold) Si hace sol (If it's sunny) Si hace viento (If it's windy) Si hace buen tiempo (If it's good weather) Si hace mal tiempo (If it's bad weather) Si llueve (If it rains)	Visitaré el catedral (I will visit the cathedral) Sacaré muchas fotos (I will take lots of photos) Iré al polideportivo (I will go to the sports centre) Subiré al teleférico (I will go up the cable car) Nadaré en el mar (I will swim in the sea) Descansaré en la playa (I will relax on the beach) Jugaré al badminton (I will play badminton) Haré una excursión en barco (I will go on a boat excursion) Veré delfines (I will see dolphins) Iré de compras (I will go shopping) Compraré regalos (I will buy presents)	Y será (and it will be)	Emocionante (exciting) Fenomenal (phenomenal) Divertido (fun) Guay (cool) Una nueva experiencia
Si está nublado (If it's cloudy) Si pudiera (If I could) Si tuviera el tiempo (If I had the time) Si fuera rico/a (If I were rich)	Visitaría el catedral (I would visit the cathedral) Sacaría muchas fotos (I would take lots of photos) Iría al polideportivo (I would go to the sports centre) Subiría al teleférico (I would go up the cable car) Nadaría en el mar (I would swim in the sea) Descansaría en la playa (I would relax on the beach) Jugaría al badminton (I would play badminton) Haría una excursión en barco (I would go on a boat excursion) Vería delfines (I would see dolphins) Iría de compras (I would go shopping) Compraría regalos (I would buy presents)	Y sería (and it would be)	(a new experience) Un sueño hecho realidad (a dream come true)

¿Dónde te gusta comprar? ¿Adónde fuiste de compras la última vez que fuiste de compras?

Me gusta comprar (I like to shop)	en los grandes almacenes (in the department stores)	porque (because)	tiene un montón de tiendas (It has loads of shops)
Odio comprar (I hate to shop)	en las tiendas de diseño (in designer stores)		se puede comprar de todo allí (you can buy everything there)
	en las tiendas de segunda mano (In second hand shops)		es muy divertido pasar la tarde allí (It's really fun to spend the afternoon there)
	por Internet (on the internet)		es mucho más cómodo (It's much more comfortable)
Normalmente voy (Normalley I go)	al centro comercial (to the shopping centre)		es más barato (it's much cheaper)
Suelo ir (I usually go)	al centro de la ciudad (to the city centre)		hay más variedad (there is more variety
			hay demasiada gente (there are too many people)
La última vez que fui de		y compré	una blusa (a blouse)
compras , fui		(and I bought)	unos vaqueros (some jeans)
(The last time I went shopping I went)			joyería (jewellery) un regalo para X (a present for X)

¿Cuál es lo mejor de tu ciudad?

Lo mejor de mi ciudad es que (The best thing about my city is that)	hay tantas diversiones (there are so many fun things) el transporte público es muy bueno (the public transport is very good) las tiendas están tan cerca (the shops are so close) hay muchas posibilidades de trabajo (there are lots of job opportunities) hay mucho que hacer (there is lots to do) es muy tranquilo (it's very calm)
Lo peor es que (The worst thing is that)	el centro es tan ruidoso (the centre is so noisy) hay pocos espacios verdes (there are few green spaces) hay tanto tráfico (there is so much traffic) hay tantas fábricas (there are so many factories) hay tantos atascos (there are so many traffic jams) hay bastante desempleo (there is a lot of unemployment) la red de transporte público no es fiable (the public transport network is not reliable)
En el pasado (In the past)	había mucha contaminación / mucha violencia (there was a lot of pollution / violence) era muy industrial (it was very industrial) estaba sucia / limpia (it was dirty/clean)
Todavía necesitamos (We still need)	más espacios verdes (more green spaces) una zona peatonal (a pedestrianised area)
Si fuera alcalde (If I were mayor)	mejoraría el sistema de transporte público (I would improve the public transport system)

 $\label{eq:Qué hiciste} \mbox{eceintemente en tu zona? Describe una visita que hiciste a otra ciudad.}$

Hace cinco años	fui a	la comida estaba rica	me quedé impresionada
(Five years ago)	(I went to)	(the food was delcious)	(I was impressed)
El año pasado	visité el centro histórico	la gente era muy abierta	fue fenomenal
(Last year)	(I visited the historic centre)	(The people were very open)	(It was phenomenal)
El verano pasado	vi lugares de interés		me gustó mucho
(Last summer)	(I saw places of interest)	era muy acogedora (It was very welcoming)	(I liked it a lot)
	hice una visita guiada	N N PN	fue una experiencia única
	(I did a guided tour)		(It was a unique experience)
	alquilé una bici		0.000 Tax 1000 Tax 1000 Tax
	(I hired a bike)		
	recorrí a pie el centro histórico		
	(I walked around the historic centre)		
	compré muchos recuerdos		
	(I bought lots of souvenirs)		
	comí los platos típicos		
	(I ate the traditional food)		

¿Qué comes? ¿Qué bebes?

Como (I eat) Arroz (rice) carne (meat) ensalada (salad) fruta (fruit) pan (bread) pescado (fish) pollo (chicken) queso (cheese) chorizo (chorizo sausage) chocolates (hocolates) gambas (prawns) hamburguesas (burgers) huevos (eggs) manzanas (apples) naranjas (oranges) verduras (vegetables) patatas fritas (chips) Bebo (I drink) Bebemos (we drink) Cuando era más joven bebía (When I was younger I used to drink) Aniana voy a beber (Tomorrow I am going to drink) Aniana voy a beber (Tomorrow I am going to drink) Aniana voy a beber (Tomorrow I am going to drink) Ariana voy a beber (Tomorrow I am going to drink) Aniana voy a beber (Tomorrow I am going to drink) Ariana voy a beber (Tomorrow I am going to drink)	carne (meat) ensalada (salad) fruta (fruit) pan (bread) pescado (fish) pollo (chicken) queso (cheese)	a menudo (often) a veces (sometimes)
Mi madre come (My mam eats) Comemos (we eat) Cuando era más joven comía (When I was younger I used to eat) Bebo (I drink) Bebo (I drink) Mi padre bebe (My dad drinks) Bebemos (We drink) Cuando era más joven bebía (When I was younger I used to drink) Mañana voy a beber ensalada (salad) fruta (fruit) pan (bread) pan (bread) pan (bread) pescado (fish) pollo (chicken) queso (cheese) chorizo (chorizo sausage) nunca (never) nunca (never) nunca (never) nunca (never) pan (a veces (sometimes) de vez en cuando (from time to time) queso (chese) nunca (never) nunca (never) nunca (never) nunca (never) chorizo (chorizo chorizo cho	ensalada (salad) fruta (fruit) pan (bread) pescado (fish) pollo (chicken) queso (cheese)	a veces (sometimes)
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(My mam eats) pan (bread) pescado (fish) pollo (chicken) queso (cheese) chorizo (chorizo sausage) chocolates (chocolates) gambas (prawns) hamburguesas (burgers) huevos (eggs) manzanas (apples) naranjas (oranges) verduras (vegetables) patatas fritas (chips) Bebo (I drink) (I drink) Mi padre bebe (My dad drinks) Bebemos (we drink) Cuando era más joven bebía (When I was younger I used to drink) Mañana voy a beber pan (bread) pescado (fish) pollo (chicken) de vez en cuando (from time to time) nunca (never)	pan (bread) pescado (fish) pollo (chicken) queso (cheese)	The state of the s
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Mi padre bebe (My dad drinks) Bebemos (we drink) Cuando era más joven bebía (When I was younger I used to drink) Mañana voy a beber	agua (water)	
Mi padre bebe (My dad drinks) Bebemos (we drink) Cuando era más joven bebía (When I was younger I used to drink) Mañana voy a beber	café (coffee)	
(My dad drinks) Bebemos (we drink) Cuando era más joven bebía (When I was younger I used to drink) Mañana voy a beber	té (tea)	
Bebemos (we drink) Cuando era más joven bebía (When I was younger I used to drink) Mañana voy a beber	leche (milk)	
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Cuando era más joven bebía (When I was younger I used to drink) Mañana voy a beber		
(When I was younger I used to drink) Mañana voy a beber		
(When I was younger I used to drink) Mañana voy a beber		
Mañana voy a beber		
TO A CONTROL OF THE C		
(Tomorrow I am going to drink)		
9500 E7 (944)		chocolates (chocolates) gambas (prawns) hamburguesas (burgers) huevos (eggs) manzanas (apples) naranjas (oranges) verduras (vegetables) patatas fritas (chips) agua (water) café (coffee) té (tea) leche (milk)

Sí he probado la comida española (yes, I have tried Spanish food)					
	No, no he probado la d	comida española (no, I haven't tried	Spanish food)		
Time phrase	Verb	Noun	Connnective	Adjective	
El año pasado (last year) El verano pasado (last summer)	comí (I ate)	la tortilla española la paella el gazpacho el jamón serrano el chorizo el queso manchego	y fue (and it was)	asqueroso/a (disgusting) delicioso/a (delicious)	
		las patatas bravas los calamares los churros las tapas las gambas las aceitunas	y fueron (and they were)	asquerosos/as (disgusting) deliciosos/as (delicious)	
En el futuro (In the future)	me gustaría probar (I would like to try)	las croquetas			
	fue inventado en (it was invented in)	Colombia España			
	fue introducido por (it was introduced by)	la población indígena (the indigenous population)			

¿Cómo se celebran Día de los Muertos o Los Sanfermines?

Time phrase	Verb	Connective	Adjective
Para Día de los Muertos (For Day of the Dead) Para los Sanfermines (For the San Fermín festival)	celebran con familia (They celebrate with family) bailan en las calles (They dance in the streets) limpian y decoran las tumbas (They clean and decorate the graves) comen pan de muerto (They eat "pan de muertos") ven los desfiles en las calles (They watch parades in the streets) decoran las casa con flores y velas (They decorate the house with flowers and candles) preparan altares en honor de los muertos (They prepare altars for the deceased) Vvsitan los cementerios (They visit the cementaries) llevan ropa blanca con un pañuelo rojo (They wear white clothes with a red handkerchief) corren delante de los toros (They run in front of the bulls)	y es (and it is)	animado (lively) emocionante (exciting) divertido (fun) especial (special) una tradición importante (an important tradition) peligroso (dangerous) cruel y violento (cruel and violent) delicioso (delicious) valiente (brave)

Háblame de lo que hiciste en un día especial reciente

Time phrase	Verb	Connective	Adjective
Para navidad el año pasado (For Christmas last year)	me desperté muy temprano (I woke up really early)	y fue (and it was)	animado (lively)
Para celebrar Eid-al-Fitr el año pasado (To celebrate Eid last year)	recé (I pray)		emocionante (exciting)
(**************************************	me vestí con mi mejor ropa (I wore my best clothes)		divertido (fun)
	fui a la iglesia/a la mezquita/a misa (I went to church/the mosque/Mass)		especial (special)
	abrí mis regalos (I opened my presents)		una tradición importante (an important tradition)
	comimos una cena especial (We ate a special dinner)		
	cantamos villancicos (We sung carols)		
Para celebrar nochevieja (To celebrate New Year's Eve)	llevé ropa interior roja (I wore red underwear)		
	comí doce uvas (I ate 12 grapes)		
	me acosté muy tarde (I went to bed very late)		

Háblame de la última vez qe fuiste a un restaurante

Time marker	Verb	Connective	Verb/opinion
Hace dos semanas (Two weeks ago) Para mi cumpleaños (For my birthday) El fin de semana pasado (Last weekend)	fui a un restaurante italiano (I went to an Italian restaurant)	por un lado (on the one hand)	el ambiente era animado y acogedor (the atmosphere was lively and welcoming) todo estaba muy limpio (everything was very clean) el camarero era amable (the waiter was friendly) el pollo estaba buenísmo (the chicken was extremely good) había mucha variedad (there was a lot of variety) tenía una terraza espectacular (it had a spectacular terrace)
		por otro lado (On the other hand)	tuvimos que esperar mucho tiempo (we had to wait a long time) pedí pollo pero el camarero me trajó pescado (I asked for chicken but the waiter brought me fish) el pescado estaba frío (the fish was cold) era carísima (it was extremely expensive) el plato estaba sucio (the plate was dirty) había una mosca en la sopa (there was a fly in the soup)

¿Has asistido a u	¿Has asistido a un festival de música?		
Time marker	Verb	Connective	Verb/opinion
Acado de pasar	Vi muchas de mis bandas	por un lado	Fue una experiencia inolvidable
cuatro días en el	favoritas	(on the one	(It was an unforgettable experience)
festival de	(I saw lots of my favourite	hand)	
Benicassim	bands)		Era más barato
(I have just spend			(It was cheaper)
4 days at	Decidí acampar		
Benicassim	(I decided to camp)		El ambiente era increíble
festival)			(The atmosphere was incredible)
	Montamos la tienda		
	(we put up the tent)		
El año pasado, fui			
al festival de	Canté mucho		
Leeds	(I sang a lot)		
(Last year I went			
to Leeds festival)	Bailé mucho		
	(I danced a lot)	por otro lado	Era muy incómodo
	Comí muchos perritos calientes	(on the other	(It was very uncomfortable)
Decidí ir al	(I ate lots of hot dogs)	nand)	
festival de			Those was a let of poiss)
Lolapalooza hace			(Titlete Was a lot of Holse)
dos años			Lizo mucho calor
(I decided to go			(It was very bot)
to Lolapalooza			(It was very Hot)
two years ago)			Time in accidente
			(I had an accident)



St. Wilfrid's RC College - Knowledge Organiser GCSE - Fine Art - AQA

Who was/is the artist?

Are they related to an Art movement??

What is happening in the

Viny does the



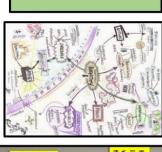
When choosing Artists linked to

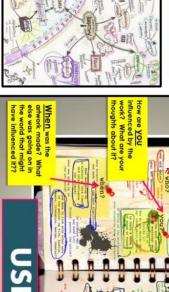
your topic you should consider...

- Do they strongly link to your project theme:
- a medium or technique you would like to experiment with. covered the same theme or uses You can use an artist that has
- enough research (information and you going to be able to find Is the topic going to be accessible for you?- easy to access. i.e. Are
- sure the topic you have chosen is strengths and interests? This is another chance to make have found linked to your fully suitable. Are the artists you

AO1- In a nutshell

- craftspeople and designers Researching and analysing the work of a range of artists,
- Showing links to work of other artists in your own workstyles/themes/techniques
- influenced your work Writing about artists and how they have informed and

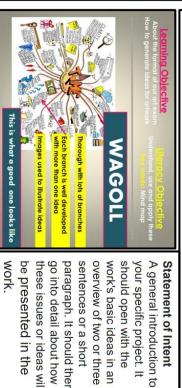




How has the

Artist Sheets- What you should include

- Mind-map of artists that have also explored your theme and any ideas you initially have.
- depth At least 2 artists you have chosen to research in more
- Images of the artists work
- using questions as a guide Written analysis of the work of your chosen artists-
- Your own drawing/artwork in the style of or inspired by your chosen artists
- Statement of intent- a brief plan of your initial ideas



earning Objective

nderstand, use and apply these



Explanation of artists main ideas

Explanation of media used

Relevant information

Typed up – presented neatly

This is what a good one looks like





Y11	Music
Mo	dule 1
Kno	wledge
Org	aniser

Area of Study

Vocal Music Music

Purcell

"Music for a While"

What do we need to know in order to answer the exam questions?

- The background to Purcell and the Baroque style
 What the structure and main musical features of the piece are
 How ground bass (basso ostinato)and vocal music was composed during this time

	_		the term and	7 7000
	•	Purcell (1659- 1695) was a well know diverse English co	mposer during t	he Baroque period.
CONTEXT/	•	Lots of Purcell's music was commissioned by patrons.		
COMPOSER	•	This period saw a development in small scale public con-	certs. The lack o	of large scale
		performances meant that Purcell could not show off his	ability as an ope	era composer.
	•	Music for a While was composed in 1692 and is the 2 nd	of 4 movements	
	•	Many ground bass pieces were Laments – like this piece	they emphasise	ed falling phrases in a
		minor key with a slow tempo.		
	•	A ground Bass is usually in a minor key, slow tempo, en	ds on perfect ca	dence, and uses
STYLE		chromatic notes to create interest.		
SITLE	•	This ground bass is unusual because it is only 3 bars lon	g.	
	•	The piece is in rounded Binary form		2 42
	•	The B section is only 8 bars long and includes	Intro Section A	Bars 1-3 Bars 4-21
STRUCTURE		a 1 bar harpsichord link to separate section A and B	Section B	Bars 22-28
			Section A1	Bars 29-38
		Purcell uses dissonance to create tension		
		The melody uses ornamentation		
MELODY	•	Word painting is used to emphasis the meaning of the t	evt	
		Most of the first few bars are syllabic.	CAC:	
		The melody has a different amount of bars to the groun	d hass so the n	brases do not align
		There are interjections (swapped phrases between the	The state of the s	Contract of the Contract of th
		There is ornamentation in the repeat of the melody in A	Marie Control of the	iciloru at bai 21:)
	+	Table 1 of the Control of the Contro	10 (0.8)	
HARMONY/	•	The recording sounds lower than written (Am). Baroque		ere tuned differently
TONALITY	•	The opening chord is A minor which is the most likely of	The state of the s	
	•	Ground bass is heard at the beginning in the left hand o	the harpsichor	d and uses rising
		(why?) quavers	:	- fli
	•	The ground bass features some chromatic notes to prov	the same of the same of the same of	
	•	The ground bass ends with a perfect cadence using the	and the second second second	
	•	A dissonant interval on word pains at bar 12 beat 3 whe		
	•	Modulation to dominant (Em) at bar 13 followed by a p		
	Bar 16 moves to G major (relative major of Em) where the ground bass starts on F# Bar 21 modulates C major for the start of the B section (bar 22) but back to Am at bar 23 Brief modulation to Em at bar 28 with a perfect codense back to Am to follow.			
	•			
	•	The final chord is an arpeggiated chord in the harpsichord.		
INSTRUMENTS	•	Basso continuo features a Harpsichord, Lute and Viol.		
1	•	Solo voice (enters at bar 4)		
VOCALS	•	The set work has a notated right hand part for the harp		nally it would have
DIRECTION!		been read from figured bass (each performance would I	e different)	
RHYTHM/ METRE/	•	There is no tempo marking but it is a fairly slow pace.	2 20 12 22	
TEMPO	•	Dotted rhythms in the right hand of the harpsichord are	characteristic o	of stile italiano
- 107	•	Dynamics were not traditionally written on the music so	much of this is	left to interpretation
DYNAMICS	•	The piece starts quietly.		
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Area of Study 2

Vocal Music Music

Queen

"Killer Queen"

What do we need to know in order to answer the exam questions?

- The background to **Queen** and the song How music **technology** and **effects** are used Key musical elements within the piece.

CONTEXT/ STYLE	 Killer Queen was released in 1974 and was one of Queen's first mainstream songs. Inspired by comic musical theatre style from the 1880's Vaudeville which heightens the sense of theatre in their songs.
STRUCTURE	 Based on verse/chorus structure but unlike most rock songs it has an adventurous structure. Although it seems to have a fairly straightforard structrure there are unbalanced phrases of 4, 5 and 3 bar phrases in Verse 1 and 2. Clear contrasts between sections
MELODY	 Queen are famous for their anthemic melodies (we will rock you) Bar 6 is the first time we have heard one of the main themes Just like Marie Antoinette which is developed in the next phrase A built in a remedy. It is syncopated but with a different emphasis.
HARMONY/ TONALITY	 The harmony makes it more like a song from a musical (rock songs are built on 12 bar blues) Opens in E flat major (unusual key for a rock song as it is a hard key for the guitar) Frequent modulations which use harmonic sequences. Perfect cadences (V-I) are used frequently to aid this. The piece opens with a C Major chord which provides tonal ambiguity. Chord inversions provide scalic movement in the bass line and there are extended chords.
INSTRUMENTS / VOCALS	 Vocals, Piano, 'jangle' piano (a honky-tonk piano which sounds a little out of tune), electric guitar, bass guitar (a warm sound produced by fender precision), drum kit and percussion. The vocals recorded did not use auto tune so required a high level of intonation. The backing vocals move in parallel. As parts cross over a swooping effect is created. The backing vocals provide harmonic support almost like a synth. Gospel inspired parallel harmonies in the backing vocals. The jangle and piano create a hybrid timbre when played together. Vocals are mostly syllabic and often staccato, contrasting backing vocals are mostly legato.
RHYTHM/ METRE/ TEMPO	 Guitar techniques include string-bends, slides, vibrato and pull offs. There is no strumming. Time signature = 12/8 (although it could be seen as 4/4 with swung quavers) The main rhythmic motif is syncopated and can be found at bar 47-50. Here it alternates between groups of instruments which gives an antiphonal effect. Tempo is crotchet = 112
TECHNOLOGY	 No synthesizers are used. Effects were created the 'old fashioned way' using instruments. Complex multi-tracked guitar and vocal parts which create a very distinctive sound. Panning is used to create an antiphonal effect. Distortion is used throughout giving it a sustained sound. There is reverb throughout on most tracks which creates a sense of space. Microphones were positioned when recording the guitars to create different timbres.
TEXTURE	 Overdubbing is used to layer up the vocal and guitar parts. This gives a thicker texture as parts are layered on each other. The chorus features Mercury singing four parts separately to create a 4-part choir. The drum kit is used more like it is in jazz rather than rock adding to the texture with fills etc. Opening is homophonic and builds gradually. During the second phrase of the second verse we start to hear polyphonic texture.

Variation	 The training is continuous with no rest period and the intensity of training is varied by running at different speeds or over different terrain (surface). 		
Rest and Recovery	complete rest, walking or light jogging. Fartlek Training	before a bleep. If an individual misses three bleeps that is the end of the test.	
Specificity	 Interval Training An individual performs a work period followed by a recovery period. Typical work time can vary from 30 seconds to five minutes: recovery periods can be 	 Multi Stage Fitness Test Continuously running 20m shuttle runs for as long as possible, ensuring that the individual running reaches the end of their 20m shuttle run 	Aerobic Endurance
Reversibility	• Exercises should be selected which are relevant to specific sports.	standing position, jump and make a second mark, measuring the distance between the two marks in cm.	
Individual Differences	 Plyometrics Plyometric exercises require maximal force and these types of exercises include lunging, bounding, incline pressures harrier bapping and impring 	 Vertical Jump Test Stand against a wall, with their feet on the floor, reach up and make a mark with their finger tips. Again with feet on the floor from a 	Power
Adaptation	Acceleration Sprints • The pace is gradually increased from a standing start to jogging, then to striding, and then to a maximum sprint.		
Progressive Overload	period. Hollow Sprints • Sprints followed by a period of walking/jogging and so	they can for 35m with their time recorded in seconds.	
Additional Principles of Training	Interval Training • A short, high intensity work period followed by a rest	 35m Sprint Test From a standing start, pupils sprint as quickly as 	Speed
Туре (Т)	for a specific length of time before moving to the next exercise.	 Number of sit ups an individual can complete in one minute. 	
Time (T)	to specific sports.	One Minute Press Up Test	
Intensity (I)	 A range of different exercises are used to train different muscles. Exercises are also selected which are relevant 	 Number of sit ups an individual can complete in one minute. 	
Frequency (F)	Circuit Training	One Minute Sit Up Test	Muscular Endurance
Principles of Training (FITT)	Training Method	Fitness Test	Component of Fitness
	Health Related Fitness (HRF)	Ŧ	



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