

# Year 10 – 100% Book Term 1 - 2022

NAME	
FORM GROUP	



# The Science of Learning

# How to do Retrieval Practice

Study the material you are trying to learn first. Take about 20 minutes the first time BUT this will get less and less each time as you get to know the material. ÷

You can study the material by;

- Reading it again, over and over
  - Look/cover/write/check
- Creating flashcards that you test yourself on
- 2. Pick up and use a black pen.

Put away all the answers and test yourself writing everything you remember in the blank spaces provided. Do not cheat!

- 3. Now pick up and use a green pen.
- Check your answers:-
- Tick all of your correct answers
- Amend any incorrect answers (even if they are slightly wrong)
- Fill in any blank spaces with the correct answer copying the answer word for word
  - Check all spellings are correct
- Repeat the process as many times as you need to, pay special attention to your previous green pen answers (as these are the bits you need to learn!) 4
- Tip:- Lay blank pieces of paper over the answers in order to re-use the quiz again and again ŝ

Tip: - Even if you think you know it test yourself a week or so later to check you do.

Tip: - Do not leave it until the last minute – do some every week in the summer holidays (this is called Spaced Practice)

Tip: - Once you think you know it test yourself on everything AGAIN

Retrieval practice feels hard but it is a really effective way to learn and commit knowledge to long term



#### KNOWLEDGE ORGANISER Art & Design Year 10 – The Formal Elements 2D (Half Term 1)

#### **Prior Learning Check**

- **U** How to use a pencil to create tone
- **U** How to use symmetry to plot and draw objects

#### Key Knowledge

#### **DEVELOP ideas: AO1**

You will learn:

- How to describe and construct artworks using the Formal Elements
- About key artists who use line, shape, colour, texture and tone
- How to explain connections between artist research and your own work

#### EXPLORE ideas: AO2

You will learn to:

- Use tools and materials to convey different linear qualities
- Use tools and materials to convey different and textural qualities
- □ Render with pencil, biro and other tonal media

#### <u>RECORD ideas: AO3</u>

You will study approaches to drawing which focus on:

- □ How to observe
- □ How to use line in a varied way for descriptive effect
- □ How to analyse shape and proportion
- How to see positive and negative space and use this to check accuracy
- □ How to suggest form and texture through mark-making such as cross-hatch.
- □ How to create illusion of depth on a flat surface
- □ How to record thoughts/observations in annotation

#### PRESENT ideas: AO4

- □ Use a sketchbook to layout work and show the development of your skills/project
- □ To compose imagery using the Rule of Thirds

POSSIBLE OUTCOMES	S: examples of excellence
Motor Skills 1: Tonal	Gradients
	and the second second
Controlling pressure, layerin seamless transitions betwee	g and mark to create n tone without smudging
Motor Skills 2: Form a	and Contour Gestures
	11/1/1/100
00000	

1. Medium	The materials and methods used to make a piece of art or design e.g paint (Plural = media)
2. Line	The path left by a moving point. Lines can vary in thickness, length and direction to convey different qualities.
3. Shape	A line which meets itself. A shape is flat and has no depth (2D). It can be regular like a circle, square or triangle, or irregular
4. Texture	The way something feels or looks like it feels.
5. Tone	The lightness or darkness of colour. This can be used to suggest 3D form.
6. Observation	The power to see clearly or take notice of something
7. Scale	The physical size of an artwork or objects in the artwork.
8. Proportion	the different sizes of the individual parts that make up one object and how they relate to each other
9. Contour	Lines that are used to define the shape or form of an object
10. Render	The process of creating the effects of light, shade and light source to achieve contrast in drawings. Linked to contour.
11. Study	An observational drawing in any medium/ format
12. Composition	How visual elements are laid out to create a visually pleasing artwork
	2. Line 2. Line 3. Shape 3. Shape 4. Texture 5. Tone 5. Tone 6. Observation 7. Scale 7. Scale 8. Proportion 8. Proportion 9. Contour 9. Contour 10. Render

## ENGLISH LITERATURE 1

#### Knowledge Organiser: An Inspector Calls

N	/HO'S WHO? KEY CHARACTERS
1. Mr Arthur Birling	The patriarch of the Birling family. Factory owner and capitalist. Birling is arrogant, avaricious and ignorant
2. Mrs Sybil Birling	Arthur's wife, from a higher social background. Chairwoman of a Brumley Women's Charity. Mrs Birling is prejudiced, snobbish and supercilious
3. Gerald Croft	Son of Lord and Lady Croft. Engaged to be married to Sheila Birling. Gerald is handsome, privileged and traditional
4. Sheila Birling	Arthur and Sybil Birling's daughter. Engaged to be married to Gerald Croft. Sheila is naïve, inquisitive and open-minded
5. Eric Birling	Arthur and Sybil Birling's son. Seems to have a drinking problem. Eric is unstable, uncertain and reckless
6. Edna	The Birling family's maid. Has very few lines in the play. Edna is a visual representation of the voiceless underclass
7. Inspector Goole	A mysterious Inspector who arrives to investigate the death of Eva Smith. Embodies Priestley's own socialist values. The Inspector is enigmatic, authoritative and influential
8. Eva Smith/Daisy Renton	Suicide victim, involved with the lives of all the Birling family. Does not physically appear on stage. Eva is sympathetic, vulnerable and tragic

-	WHAT HAPPENS?
9. Act One	We are introduced to the privileged Birling family, who are celebrating Sheila's engagement to Gerald Croft. Their celebrations are interrupted by the arrival of a Inspector, who is here to investigate the suicide of a working class woman, Eva Smith. It is revealed that Eva once worked at Mr Birling's factory, but was sacked for becoming involved in strike action. She was then dismissed from another job in a clothes shop after Sheila made a complaint about her. Whilst Sheila feels immensely guilty for her actions, Mr Birling does not. Act One concludes when it becomes obvious that Gerald Croft also knew Eva Smith too, once she changed her name to Daisy Renton.
10. Act Two	It is revealed that Gerald Croft and Eva/Daisy had an affair, though due to their class differences Gerald had no intention of continuing it beyond the summer. Sheila gives him back the engagement ring. The Inspector reveals that Eva was due to have a child, and went to Mrs Birling's charity committee for help. Mrs Birling turned her away. The final reveal of Act Two is that Eric was the father of Eva's unborn child.
11. Act Three	Eric is confronted for his role in Eva Smith's death – he forced himself upon her, got her pregnant and stole money from his father's company to offer to her. When realising that Eva's child was his, and that Mrs Birling turned her away, Eric is distraught. The Inspector leaves, telling the Birlings that they all must share the responsibility for what they did and that they have a wider social responsibility. After the Inspector leaves, the older Birlings and Gerald try to deflect the blame, but Sheila and Gerald are horrified by their elders' actions. Whilst Gerald discovers that the Inspector may have been a hoax and that no girl has apparently died, the play ends with the reveal that an Inspector is in fact on his way to interrogate the family for real

# ENGLISH LITERATURE 2

KEY THEMES AND CONCEPTS	
12. Social Responsibility	The extent to which people should look after others in their community
13. Duty	One's responsibility to one's family and wider community
14. Class	One's social position, determined by their money, birth, environment, education and opportunities
15. Gender Roles	The expected behaviour and roles of men and women within society
16. Generational Differences	The expected behaviour and roles of older and younger people within society
17. Power	The use (and abuse) of positions of authority and privilege
18. Change	The ability for individuals and societies to evolve and progress
19. Exploitation	The abuse of power over those in lower social positions

KEY CONTEXT	
20. Edwardian Era - 1912	A time of great social division, where the rich got richer and the poor got poorer. When Priestley set the play
21. Post-war era - 1945	A time of potential social change and rebuild, following the Second World War. When Priestley wrote the play
22. The Titanic	An enormous cruise ship, built to show off Britain's industrial might in the Edwardian era. Sank on its maiden voyage when it hit an iceberg, killing 1500 people (mostly lower class citizens)
23. The Suffragettes	A group of women, led by Emmeline Pankhurst, who campaigned for women's rights (especially the right to vote) during the Edwardian era
24. Strikes	Many industrial strikes occurred in Britain during the early part of the twentieth century, as workers protested against low pay and poor conditions

KEY VOCABULARY	
25. privilege	a special right, advantage, or immunity granted or available only to a particular person or group
26. prejudice	preconceived opinion that is not based on reason or actual experience
27. capitalism	an economic and political system in which a country's trade and industry are controlled by private owners for profit, rather than by the state
28. socialism	a political and economic theory of social organization which advocates that the means of production, distribution, and exchange should be owned or regulated by the community as a whole
29. conscience	a person's moral sense of right and wrong, viewed as acting as a guide to one's behaviour
30. hierarchy	a system in which members of an organization or society are ranked according to relative status or authority
31. individualism	social theory favouring freedom of action for individuals over collective or state control
32. collectivism	the practice or principle of giving a group priority over each individual in it
33. conceited	excessively proud of oneself; vain
34. brazen	bold and without shame
35. mouthpiece	a person or organization who speaks on behalf of another person or organization
36. open- minded	willing to consider new ideas; unprejudiced
37. misogynistic	strongly prejudiced against women
38. microcosm	a community, place, or situation regarded as encapsulating in miniature the characteristics of something much larger
39. omniscient	knowing everything

## ENGLISH LANGUAGE

#### **Knowledge Organiser: Creative Reading and Writing**

Key Skills	
1. Retrieve	To find and re-state explicit information
2. Analyse	To explore the possible meaning and effect of a writer's choices
3. Language	The choice and meaning of words, and the effect they generate on a reader
4. Structure	The sequencing and order of a text, and the effect this generates on a reader
5. Evaluate	To make a judgement relating to an idea or statement. To express and justify your own opinion
6. Story	A short piece of fictional writing
7. Description	A short piece of writing focusing on building a detailed, multi- sensory image of a character, setting, event and/or atmosphere

Key Language Techniques	
8. simile	A comparison between two things using 'like' or 'as'
9. metaphor	A direct comparison between two things
10. personification	The use of language to give life or personality to an inanimate object
11. onomatopoeia	A word whose sound reflects the sound it describes
12. imagery	Descriptive language that creates a multi-sensory image for a reader
13. hyperbole	Exaggeration; going over the top
14. repetition	A word or phrase is used more than once in quick succession
15. alliteration	A letter or sound is used more than once in quick succession
16. emotive language	Language that is designed to trigger a particularly strong feeling or emotion in the reader
17. rhetorical question	A question phrased in such a way that the questioner does not expect an answer (usually because the answer is implied)
18. tone	The general character or 'feel' of a piece of writing

<b>Key Structural Technique</b>	Key Structural Techniques	
19. opening sentence	The first sentence of a piece of writing	
20. foregrounding	The focus of a section of text – placed in the 'foreground'	
21. establishing setting	The writer focuses on building a description of place	
22. establishing character	The writer focuses on building a description of one or more characters	
23. exposition	The writer provides backstory or additional information needed to understand the story	
24. dialogue	The written form of conversation between two or more characters	
25. spatial and temporal shifts	A significant change, or 'shift' during the story. Spatial shifts are changes in setting; temporal shifts are changes in time	
26. flashback	The writer 'goes back in time' to describe something that happened earlier	
27. thought tracking	The writer allows the reader an insight into the thought process of a character	
28. perspective	The point of view from which the piece of writing is told	
29. pace	The speed at which the story is told, and/or the reader is encouraged to read	
30. contrast/juxtaposition	Opposite ideas, concepts, characters and settings are placed in close proximity to one another to emphasise the difference between them	
31. closing sentence	The final sentence of a piece of writing	
32. foreshadowing	The writer provides hints, references or clues to events that will happen later in the piece of writing	

Key Parts of a Story	
33. Introduction	The characters and/or setting are introduced
34. Rising action	Events occur that build tension and lead to a problem or conflict
35. Climax	The main problem or conflict in action. Tension and excitement are at their peak
36. Falling action	Characters work to solve the problem or conflict
37. Conclusion	How the story ends

# SCIENCE 1

1.	1a Microscopes Eyepiece lens	The part of the microscope you look down.
2.	Magnification	How much bigger something appears compared with its
	Objective	actual size.
3.	Objective lens	The part of the microscope that is closest to the specimen.
4.	Resolution	Smallest change that can be measured by an instrument. For example, in a microscope it is the smallest distance between two points that can be seen as two points and not blurred into one point.
5.	Stain	A dye used to colour parts of a cell to make them easier to
		see.
CB	1b Plant and Animal	Cells
6.	Aerobic respiration	A type of respiration in which oxygen is used to release energy from substances, such as glucose.
7.	Cell (surface)	The membrane that controls what goes into and out of a
	membrane	cell. It is often called the cell surface membrane because
		eukaryotic cells contain other structures with membranes.
8.	Cell sap	Liquid found in the permanent vacuole in a plant cell.
9.	Cell wall	A tough layer of material around some cells, which is used for protection and support. It is stiff and made of cellulose in plant cells. Bacteria have a flexible cell wall.
10.	Chlorophyll	The green substance found inside chloroplasts. It traps energy transferred by light.
11.	Chloroplasts	A green disc containing chlorophyll, found in plant cells. Where the plant makes glucose, using photosynthesis.
12.	Chromosome	A structure found in the nuclei of cells. Each chromosome contains one enormously long DNA molecule.
13.	Cytoplasm	The watery jelly inside a cell where the cell's activities take place.
14.	DNA	A substance that contains genetic information. Short for deoxyribonucleic acid.
15.	Eukaryotic	A cell with a nucleus is eukaryotic. Organisms that have cells like this are also said to be eukaryotic.
16.	Field of view	The circle of light you see looking down a microscope.
17.	Mitochondrion	A sub-cellular structure (organelle) in the cytoplasm of eukaryotic cells, where aerobic respiration occurs. Plural is mitochondria.
18.	Nucleus	The 'control centre' of a eukaryotic cell.
10	Ribosome	Tiny sub-cellular structure that makes proteins.

20. Scale bar	A line drawn on a magnified image that shows a certain distance at that magnification.
21. Scientific paper	An article written by scientists and published in a science magazine called a journal. It is like an investigation report but usually shows the results and conclusions drawn from many experiments.
22. Vacuole	A storage space in cells. Plant cells have a large, permanent vacuole that helps to keep them rigid.
CB1c Specialised Cells	
23. Acrosome	A small vacuole in the tip of the head of a sperm cell, which contains enzymes.
24. Adaptation	The features that something has to enable it to do a certain function (job).
25. Adapted	If something has adaptations for a certain function (job), it is said to be adapted to that function.
26. Ciliated epithelial cell	A cell that lines certain tubes in the body and has cilia on its surface.
27. Cilium	A small hair-like structure on the surface of some cells. Plural is cilia.
28. Digestion	A process that breaks molecules into smaller, more soluble substances.
29. Diploid	Describes a cell that has two sets of chromosomes.
30. Egg cell	The female gamete (sex cell).
31. Embryo	The tiny new life that grows by cell division from a fertilised egg cell (zygote).
32. Enzyme	A substance that can speed up some processes in living things (e.g., Breaking down molecules).
33. Epithelial cell	A cell found on the surfaces of parts of the body.
34. Fertilisation	Fusing of a male gamete with a female gamete.
35. Gamete	A cell used for sexual reproduction.
36. Haploid	Describes a cell that has one set of chromosomes.
37. Microvillus	A fold on the surface of a villus cell. These folds increase the surface area so that digested food is absorbed more quickly. Plural is microvilli.
38. Oviduct	A tube that carries egg cells from the ovaries to the uterus in females. Fertilisation happens here.
39. Specialised cell	A cell that is adapted for a certain specific function (job).
40. Sperm cell	The male gamete (sex cell).

## SCIENCE 2

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41. Chromosomal DNA	DNA found in chromosomes but the term is often used to
	describe the large loop of DNA found in bacteria.
42. DNA	A substance that contains genetic information. Short for
x.	deoxyribonucleic acid.
43. Flagellum	A tail-like structure that rotates, allowing a unicellular
	organism to move. Plural is flagella.
44. Index	A small raised number after a unit or another number to
	show you how many times to multiply it by itself. For
	example, 10 <sup>3</sup> means multiply 10 together 3 times
	(10 × 10 × 10).
45. Plasmid	A small loop of DNA found in the cytoplasm of bacteria.
46. Plasmid DNA	DNA found in plasmids.
47. Prokaryotic	A cell with no nucleus is prokaryotic. Organisms such as
	bacteria, which have cells like this, are also said to be
	prokaryotic.
48. Standard form	A very large or very small number written as a number
	between 1 and 10 multiplied by a power of 10.
CB1e Enzymes and Nut	
49. Biological catalyst	A substance found in living organisms that speeds up
	reactions (an enzyme).
50. Catalyst	A substance that speeds up the rate of a reaction, without
n an	itself being used up.
51. Digest	To break down large molecules into smaller subunits,
- 1960, T 500 <b>-</b> 1970, 0	particularly in the digestive system.
52. Monomer	A small molecule that can join with other molecules like
	itself to form a polymer.
53. Polymer	A substance made up of very long molecules containing
150	repeating groups of atoms. (formed by joining monomer
	molecules together.)
54. Product	A substance formed in a reaction.
55. Substrate	A substance that is changed during a reaction.
56. Synthesis	To build a large molecule from smaller subunits.
CB1f Enzyme Action	n - Anna ann an ann an 2019 anns an dharann anns anns anns anns anns anns anns
57. Active site	The space in an enzyme where the substrate fits during an
	enzyme-catalysed reaction.
58. Denatured	A denatured enzyme is one where the shape of the active
	site has changed so much that its substrate no longer fits
	and the reaction can no longer happen.

59.	Lock-and-key model	Model that describes the way an enzyme catalyses a reaction when the substrate fits within the active site of the enzyme.
60.	Specific	Where an enzyme only reacts with one kind of substrate.
CB	1g Enzyme Activity	
61.	Optimum pH	The pH at which an enzyme-catalysed reaction works fastest.
62.	Optimum temperature	The temperature at which an enzyme-catalysed reaction works fastest.
CB	1h Transporting Sub	ostances
63.	Active transport	The movement of particles across a cell membrane from a region of lower concentration to a region of higher concentration ( <i>against</i> the concentration gradient). The process requires energy.
64.	Diffusion	When particles spread and mix with each other without anything moving them. Diffusion into and out of cells occurs for particles that are small enough to pass through the cell surface membrane.
65.	Concentration	The amount of a solute dissolved in a certain volume of solvent. Measured in units such as g/cm <sup>3</sup> .
66.	Concentration gradient	The difference between two concentrations. There will be an overall movement of particles <i>down</i> a concentration gradient, from higher concentration to lower concentration.
67.	Osmosis	The overall movement of solvent molecules in a solution across a partially permeable membrane, from a dilute solution to a more concentrated one.
68.	Passive	A process that does not require energy is passive. A passive process is the opposite of an active process (which requires energy).
69.	Semi-permeable	Describes something that will allow certain particles to pass through it but not others. Another term for 'partially permeable'.
70.	Solute	The solid that has dissolved in a liquid to make a solution.
71.	Solvent	The liquid in which a substance dissolves to make a solution.

	The structure of the Earth		Volcanic Hazards			Managing Volc	anic Eruptions
	Varies in thickness (5-10km) beneath the	Ach cloud	Small pieces of pulverised rock and glass which are thrown into the atmosphere.	A and a a a a a a a a a a a a a a a a a a		Warning signs	Monitoring techniques
he Crust	ocean. Made up of several large plates.		Sulphur dioxide, water vapour and carbon	acid eruption cloud eruption wind	Small	earthquakes are caused as magma rises up.	Seismometers are used to detect earthquakes.
	Widest layer (2900km thick). The heat		dioxide come out of the volcano. A volcanic mudflow which usually runs	(ash fail (tentra)		tures around the volcano rise	Thermal imaging and satellite came can be used to detect heat around
The Mantle	and pressure means the rock is in a liquid state that is in a state of convection.	Labar	down a valley side on the volcano.	lava dome pyroclastic		as activity increases.	volcano. Gas samples may be taken and
	Hottest section (5000 degrees). Mostly	Pyroclastic	A fast moving current of super-heated gas and ash (1000°C). They travel at 450mph.	flow 33		volcano is close to erupting it carts to release gases.	chemical sensors used to measu sulphur levels.
The Inner and	made of iron and nickel and is 4x denser	flow				Prepar	ation
outer Core	than the crust. Inner section is solid whereas outer layer is liquid.	Malaamia hamah	A thick (viscous) lava fragment that is ejected from the volcano.	lahar earthquakes	Creating	an exclusion zone around the volcano.	Being ready and able to evacuat residents.
	Convection Currents		LIC -CS: Haiti I	Earthquake 2010	-	n emergency supply of basic ovisions, such as food	Trained emergency services and good communication system.
The crust is di	ivided into tectonic plates which are moving o currents in the mantle.	lue to convection	Causes On a conservative plate margin, involving the	Caribbean & North American plates.		Earthquake M	1anagement
				<u>niles</u> from the capital Port au Prince. With a very	PREDICT	ING	878
	ve decay of some of the elements in the core a a lot of heat.	and mantle			Metho	ds include:	29
When low	wer parts of the mantle molten rock (Magma) i less dense and slowly rise.	neat up they	Effects 230,000 people died and 3 million affected. Many emotionally affected. 250,000 homes collapsed or were damaged.	Management Individuals tried to recover people. Many countries responded with appeals or rescue teams.	• La: • Ra		,
As they m slowly sin	nove towards the top they cool down, become n <b>k</b> .	more dense and	Millions homeless. Rubble blocked roads and shut down ports.	Heavily relied on international aid, e.g. \$330 million from the EU. 98% of rubble remained after 6 months.	• Se • W	•	uctuate before an earthquake).
These circ	cular movements of semi-molten rock are con	vection currents				lentists also use seismic record Il occur.	ds to predict when the next event
	on currents create <b>drag</b> on the base of the tect nem to move.	onic plates and this	GEOG	RAPHY	PROTE	CTION	
	Types of Plate Margins		What is a N	Natural Hazard		<b>n't stop earthquakes</b> , so earth nethods to reduce potential da	quake-prone regions follow these amage:
	Destructive Plate Margin			ich could cause death, injury or disruption to 'ty and possessions.	• Ra	ilding earthquake-resistant bu ising public awareness proving earthquake predictior	
friction causes it	er plate subducts beneath the other, t to <b>melt and become molten magma</b> . The		Geological Hazard	Meteorological Hazard	_		
	s ways up to the surface to form a argin is also responsible for <b>devastating</b>		These are hazards caused by land and tectonic processes.	These are hazards caused by weather and climate.	Causes	HIC - CS: Eyjafjallajokull (E:	15) Eruption, Iceland 2010
	Constructive Plate Margin	Disento coust Pitato norvement	Causes of	Earthquakes		rth-American and Eurasian pl	ates move apart on a cons
Here two plates reach the surface	are <b>moving apart</b> causing new magma to through the gap. Volcanoes formed cause a submarine mountain range such		up. From this <u>stress</u> , the <u>pressure</u> will ev	s movement causes energy in the form of		ruption caused by Eyjafjallajö olcanic eruptions from March	kull was the result of a series of to October. Management

#### **Conservative Plate Margin**

A conservative plate boundary occurs where plates **slide** past each other in opposite directions, or in the same direction but at different speeds. This is responsible for earthquakes such as the ones happening along the San Andreas Fault, USA.

as those in the Mid Atlantic Ridge.

seismic waves, to travel from the focus towards the epicentre. As a result, the crust vibrates triggering an earthquake.

The point directly above the focus, where the seismic waves reach first, is called the EPICENTRE.

SEISMIC WAVES (energy waves) travel out from the focus.

The point at which pressure is released is called the FOCUS.

The thick ice cap melted which caused major flooding. No reported deaths. Airspace closed across Europe, with at least 17,000 flights cancelled Costed insurers £65m to cancelled flights.

Iceland had a good warning system with texts being sent to residents within **30 minutes**. Large sections of European airspace were closed down due ash spread over the continent. Airlines developed ash monitoring equipment.

	Global pattern of air	circulation		Changing pattern	of Tropical Storms		Case Study: UK	Heat Wave 2003	
Atmo Hadley	ospheric circulation is the large-scale r distributed on the surfac		which heat is	frequency and strength of tropic	rming is having an impact on the cal storms. This may be due to an an temperatures.		r most of August. This b	clone (areas of high presso blocked any low pressure s r and rainier conditions.	
cell	the Equator to between 30° to 40° north & south.	(P)	MMELOEL	Management o	f Tropical Storms	Effect	, ,	Management	
Ferrel cell	Middle cell where air flows <b>poleward</b> between <b>60° &amp; 70°</b> latitude.			<b>Protection</b> Preparing for a tropical storm may involve construction projects that will improve protection.	Aid Aid involves assisting after the storm, commonly in LIDs.	<ul><li>strokes and</li><li>2000 people</li><li>linked to heat</li></ul>	died from causes atwave.	<ul> <li>The NHS and med guidance to the pu- Limitations placed (hose pipe ban).</li> <li>Speed limits import</li> </ul>	ublic. I on water use sed on trains
Polar cell	Smallest & weakness cell that occurs from the poles to the Ferrel cell.			<b>Development</b> The scale of the impacts depends	Planning	yields were l	disrupted and crop ow.	and government c 'heatwave plan'.	reated
D	Distribution of Tropical Storms.	High and Low Pr	essure	on the whether the country has the resources cope with the	Involves getting people and the emergency services ready to deal			nate Change?	23
	re known by many names, including ricanes (North America), cyclones	Low Pressure	High Pressure	storm. Prediction	with the impacts.		nperatures. Earth has h	rm shift in the planet's we ad tropical climates and i 5 billion years.	
•	lia) and typhoons (Japan and East ). They all occur in a band that lies	Caused by hot	Caused by	Constant monitoring can help to	<b>Education</b> Teaching people about what to do			for climate change.	
rough	nly 5-15° either side of the Equator.	air rising. Causes	cold air sinking.	give advanced warning of a tropical storm	in a tropical storm.	Global		peratures have increased	by more than
		stormy, cloudy	Causes clear and calm	Primary Effects of	of Tropical Storms	temperature	0.6°C since 1950.		
1	ALASS J	weather.	weather.	<ul> <li>The intense winds of tropical sto communities, buildings and cor</li> </ul>		Ice sheets & glaciers		s glaciers and ice sheets ar as declined by <b>10% in 30 y</b>	
HURRICANE EQ		1	Ĵ	<ul> <li>As well as their own destructive abnormally high waves called st</li> <li>Sometimes the most destructive subsequent high seas and flood</li> </ul>	e elements of a storm are these	Sea Level Change		level has risen by 10-20cm ue to the additional water	
tropical st form Typical pai of storm	storms ats	CD.			of Tropical Storms		Enhanced Gre	enhouse Effect	
1	Formation of Tropic The sun's rays heats large areas of c	ocean in the summe			a can cause distress, poverty and ill	These fuels (gas atmosphere thic	, coal and oil) emit <b>gree</b> ker, therefore trapping	humans burning fossil fur enhouse gases. This is mak more solar radiation and e Earth is becoming warm	ing the Earth's causing less to
•	This causes warm, moist air to			easier for diseases to spread.		be 1		natural change	
2	Once the <b>temperature is 27°</b> , the ris <b>pressure</b> . This eventually turns into a sucked in from th	thunderstorm. This		Shortage of food as crops are da	amaged.		ome argue that climate	change is linked to how t vobbles and tilts as it does	
3	With trade winds blowing in the opp earth involved (Coriolis effect), the	thunderstorm will		Causes	hoon Haiyan 2013	· · · · · · · · · · · · · · · · · · ·		e called Sun spots. They ir <b>receives</b> from the Sun.	ncrease the
4	to <b>sp</b> When the storm begins to <b>spin fas</b> (such as a hurricane	ter than 74mph, a	tropical storm	strength. Became a Category 5 "sup	on <b>2<sup>rd</sup> November 2013</b> and gained <b>er typhoon</b> " and made landfall on the f the Philippines.			amounts of <b>dust containir</b> esults in cooler temperatu	
	With the tropical storm growing in		air sinks in the	Effects	Management		Managing C	limate Change	<u>کر</u>
5	centre of the storm, creating calm, c	lear condition calle		<ul> <li>Almost 6,500 deaths.</li> <li>130,000 homes destroyed.</li> <li>Water and sewage systems</li> </ul>	<ul> <li>The UN raised £190m in aid.</li> <li>USA &amp; UK sent helicopter carrier ships deliver aid</li> </ul>		technology designed to limate change.	Planting Trees Planting trees increase the is absorbed from at	
6	When the tropical storm hits land, it ocean) and it begins to lose strength			destroyed had caused diseases. • Emotional grief for dead.	<ul> <li>remote areas.</li> <li>Education on typhoon preparedness.</li> </ul>		ements cut emissions by signing s and by setting targets.	Renewable Energy Replacing fossil fuels ba clean/natural source	

<b>HISTORY 1</b>	H	IS7	ГО	RY	1
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	Question	Answer
1	What was the Witan?	A council of nobles that advised the king
2	Which Anglo-Saxon kingdom became dominant?	Wessex
8	How was the king chosen in Anglo-Saxon England?	He was chosen by the Witan, and was usually the richest and most powerful noble
4	Why was the Church so important to Anglo-Saxon kings?	It had a significant influence on popular opinion and had a near- monopoly on literacy
5	What was the role of the king in Anglo-Saxon England?	To defend the kingdom. protect the Church and enforce the law
9	Which Viking king came to rule England in the 11th century?	King Chut
7	How did Cnut secure his control of England during his absences?	He divided the country into four earldoms
00	Which two changes did Edward the Confessor introduce to English government?	Sheriffs and writs
6	Why did Henry II fall out with Thomas Becket?	They disagreed about benefit of clergy
10	How was Thomas Becket killed?	He was attacked by four knights in Canterbury Cathedral
11	Did the Becket dispute pose a major challenge to Henry II's power?	No - Henry still had the power to appoint some bishops and collect money from vacant bishoprics
12	Why did the barons rebel against King John?	Because he did not consult them, taxed them highly and abused the justice system
13	What was agreed in Magna Carta?	The king could not sell justice, and was to be monitored by a council of 25 barons
14	Identify three years in the thirteenth century in which Magna Carta was reissued.	1225, 1265 and 1297
15	Why did Simon de Montfort lead a rebellion against Henry III?	He and many other barons resented Henry's high taxes and unwillingness to consult his nobles
16	What were the Provisions of Oxford?	A set of constitutional reforms forced on Henry III by his barons. They required him to defer to a council of 24 advisors.
17	How was Edward I's parliament different to Henry III's?	He summoned it voluntarily
18	Why did Wat Tyler lead the Peasants' Revolt against Richard II?	He and the rebels resented high taxation
19	Who overthrew Richard II and why?	Henry Bolingbroke because Richard was arresting and killing his opponents
20	What were the Wars of the Roses?	A three-decade-long dispute between the houses of York and Lancaster over the throne
21	How was the power of the monarchy challenged during the Wars of the Roses?	Several times, members of the nobility attempted to overthrow the monarch and place their own preferred candidate on the throne by force
22	What was the Act of Supremacy?	The act that made Henry VIII supreme head of the new Church of England
23	What is the 'Political Nation'?	The people who have a say in government
24	What was the 'divine right of kings'?	The idea that kings were appointed by God and only answerable to God
25	What was the Petition of Right?	An agreement by Charles not to tax the people without parliament's approval
26	When was Charles I's "Personal Rule"?	1629-1640
27	What action by Charles I triggered the Civil War in January 1642?	The attempted arrested of 5 MPs (involved in the Grand Remonstrance)
28	What was the New Model Army?	The well-disciplined and well-trained parliamentary army that won the Civil War
29	What influence did the execution of Charles I have on the idea of divine right?	It profoundly challenged the idea of divine right
30	Who were the Whigs?	A political group that wanted more restrictions on the power of the king, and greater powers for parliament
31	Who were the Tories?	A political group that wanted more power for the king and less power for parliament

# HISTORY 2

32	Why was the monarchy restored in 1660?	Richard Cromwell was extremely unpopular, many people wanted stability, and the country was still being run in many ways like a monarchy
33	What was the Glorious Revolution?	A bloodless revolution in which William and Mary were invited to take the throne from James II
34	What was agreed in the Bill of Rights?	Parliament was to meet at least once a year, and had to approve taxation every four years
35	What is parliamentary monarchy?	A system of government in which the monarch is notionally in charge but in practice elected ministers do most of the business of running the country
36	Give two examples of features of the British electoral system in the eighteenth century which facilitated corruption.	There was no secret ballot and rotten boroughs enabled the rich to "buy' elections
37	What impact did the French Revolution have on the campaign for electoral reform in Britain?	It inspired some people to campaign for reform (as it led to a significant increase in the number of people who could vote in France), but for others, especially in government, the French Revolution intensified fear of reform, as it led to terrible violence
38	Who were the Radicals?	People who wanted to reform the electorate
39	Who was elected in 1830 and oversaw the passing of the Great Reform Act?	The Whig Party, led by Earl Grey
40	How was the Great Reform Act passed through the House of Lords?	Earl Grey created more Whig lords so that it could pass
41	Why might the 1832 Reform Act be described as a 'stepping stone'?	Although only 18% of men could now vote, it was the first significant reform to the electoral system, proving that change was possible
42	What did the Chartists campaign for?	Universal male suffrage, no property qualification to become an MP, equal representation for constituencies, and the secret ballot
43	What did the 1867 Reform Act change?	Electorate rose from 20% of men to 40%. All men who rented a house in a borough could vote.
44	What did the 1884 Reform Act change?	Electorate rose from 3 million to 5 million. It redistributed seats more fairly based on population.
45	Who made up the majority of the membership of the Independent Labour Party (ILP)?	Working men, driven by the New Unions
46	What was the effect of the Parliament Act of 1911?	It stopped the House of Lords blocking measures that the House of Commons had approved
47	How did government control increase during the First World War?	Conscription, rationing and censorship
48	How did the relationship between people and government change with the First World War?	People grew used to the involvement of the state in their everyday lives
49	What was the result of the 1945 general election?	The Labour Party won a landslide victory
50	What significant reforms did the Labour government introduce from 1945?	National Insurance, the NHS and nationalisation
51	How did Thatcher challenge the post-war consensus?	She argued that the government should play a smaller part in solving social and economic problems
52	Why did Thatcher fall from power?	Thatcher fell from power following controversy over the Poll Tax, and clashes with her advisors on foreign affairs
55 25	How did 'New Labour' change the Labour Party? What does CND stand for?	It followed Thatcher in challenging the post-war consensus Campaign for Nuclear Disarmament
55	What led to the Miners' Strike in 1984?	The closure of mines that were not profitable at the instruction of Thatcher's covernment
56	Why did Greenpeace campaign against British Nuclear Fuels Limited (BNFL)?	They believed that the Sellafield plant was releasing radioactive water into the sea
25	Why did pressure groups become so influential?	They organised campaigns about particular issues and held parliament to account
58	How did the regions begin to pose a challenge to the British parliament?	Regions began to demand devolved power and/or independence
59	What impact did professional politicians have on engagement with politics?	Some people became more disillusioned with poliitics as they did not believe that their poliiticians would really stand up for them
09	What was the result of the 2010 general election?	No party won more than 50% of the votes, leading to a hung parliament. The Conservatives and Liberal Democrats formed a coalition government.

A user interface is the method by which the user and the computer exchange information and instructions. There are three main types - command-line, menu driven and graphical user interface (GUI)

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A user interface is the software that you can see when using a device. It allows you to respond to a device by entering information. This can include using a mouse, keyboard or touchscreen. You can now also use sound with some modern devices, where you enter commands by using your voice.

Menu based interface Command-line interfaces Graphical user interface B A text interface works by the user entering A command-line interface allows the user to interact wit Sometimes shortened to GUI. The user chooses an D special commands with the keyboard. h the computer by typing in commands. The computer displays option usually by pointing a mouse at an icon When these have been entered, the user interface a prompt, the user keys in the command and presses enter or representing that option. will then respond. return. Features of GUIs include: Features of a command-line interface They are much easier to use for beginners. Features of Menu Driven Interfaces Commands must be typed correctly and in the right order They enable you to easily exchange information The user interface is made up of text and does or the command will not work. between software using cut and paste or 'drag and not contain any graphics. . Experienced users who know the commands can work very drop'. The user enters commands with a keyboard. quickly without having to find their way around menus. . They use a lot of memory and processing power. It The user interface will respond instantly with an . An advantage of command driven programs is that they can be slower to use than a command-line output. do not need the memory and processing power of the latest interface if you are an expert user. Text interfaces do not require powerful hardware . A command-line interface can run many programs, for . They can be irritating to experienced users when as they don't contain graphics. example a batch file could launch half a dozen programs to simple tasks require a number of operations do its task. Good user interfaces ٠ An inexperienced user can sometimes find a command A good user interface should: driven program difficult to use because of the number of D commands that have to be learnt. Be attractive and pleasing to the eye Allow the user to try out CATEGORIES OF DEVICES WITH USER INTERFACES different options easily Ε 1.Computers F Be easy to use GU Handheld devices to include smartphones, tablets, laptops, e-Use suitable colours for key areas readers Use words that are easy to Entertainment systems to include games console, home theatre understand aimed at the system type of user Domestic appliances to include air conditioners, dishwashers, Have help documentation MENU COMMAND It should also consider the tumble dryers, freezers, washing machines, microwave ovens needs of the users. For Controlling devices to include security lights, central heating example, young children controllers are likely to prefer pictures to words and 6. Embedded systems to include electronic parking meters, traffic people with disabilities lights, vending machines, smartwatches/digital wristwatches, robotic may benefit from vacuum cleaners. particular input or output devices.