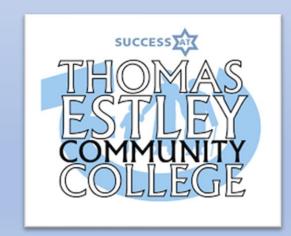
Thomas Estley Community College Year 8 Spring Term Knowledge Organiser







What are Knowledge Organisers?

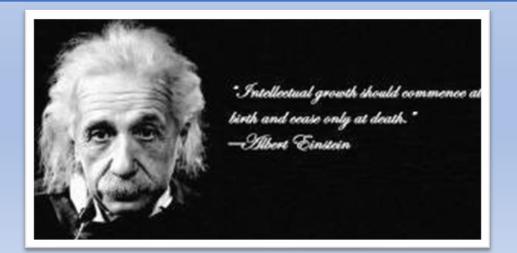
A knowledge organiser is an easy way that each subject can summarise the most important information. Each subject section will include key terms, short explanations, glossary words, diagrams etc making it clear to the student as to what is essential to learn. Each grid has an overall theme and these vary according to the subject being taught.

It will be the students responsibility to keep the knowledge organisers safe and refer to them over the whole academic year.

How will these be used at Thomas Estley?

At Key stage 3, you will be given a knowledge organiser each term. You need to keep these safe in your learning packs that you were provided with at the start of the academic year.

Your subject teachers will use these in a variety of ways, for both class work, remote learning opportunities and homework. They will be used to help with revision for class quizzes and retrieval practice activities. They will also be used for flip learning activities, where subject teachers will ask you to learn some information and then go in to it in more detail in class.







Revision Tips and Tricks!





Record It

Record yourself on your phone or tablet reading out the information. These can be listened to as many times as you want!



Teach it!

Teach someone your key facts and the get them to test you, or even test them!



Flash Cards

Write the key word or date on one side and the explanation on the other. Test your memory by asking someone to quiz you on either side.

Back to front

Write down the answers and then write out what the questions the teacher may ask to get those answers.



Hide and Seek

Read through your knowledge organiser, put it down and try and write out as much as you can remember. Then keep adding to it until its full!



Post its

Using a pack of postit notes, write out as many of the keywords or dates as you can remember in only 1 minute!



Practice!

Some find they remember by simply writing the facts over and over again.

Read Aloud

Simply speak the facts and dates out loud as you're reading the Knowledge Organiser. Even try to act out some of the facts – it really helps you remember!

Sketch it

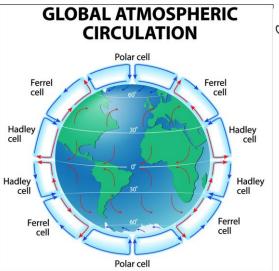
Draw pictures to represent each of the facts or dates. It could be a simple drawing or something that reminds you of the answer.

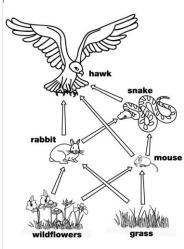
Geography Knowledge Organiser Year 8: **Ecosystems**

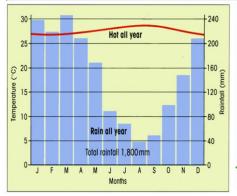
Key Word	Definition
Climate	The average weather conditions over a 30 year period (e.g. rainfall, temperature).
Global Atmospheric Circulation	The large-scale movement of air and heat around the planet. Made up of six circulation cells: Hadley x2, Ferrel x2 and Polar x2.
Biome	A very large ecosystem which occupies a major climatic region.
Ecosystem	A community of plants and animals living together in the environment.
Biotic	The living parts of an ecosystem.
Abiotic	The non-living parts of an ecosystem.
Food Chain	A series of organisms each dependent on the next as a source of food.
Food Web	All the food chains in an ecosystem linked together.
Rainforest	The name of a biome found close to the equator where it is hot and wet.
Deforestation	The removal of trees.
Desert	The name of a biome found close to the tropics where it is hot and dry (< 250mm of rain a year).
Desertification	The process by which fertile land becomes unproductive.

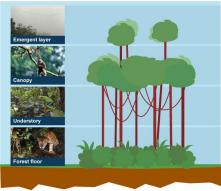
Useful websites...

https://www.bbc.co.uk/bitesize/topics/ztgw2hv





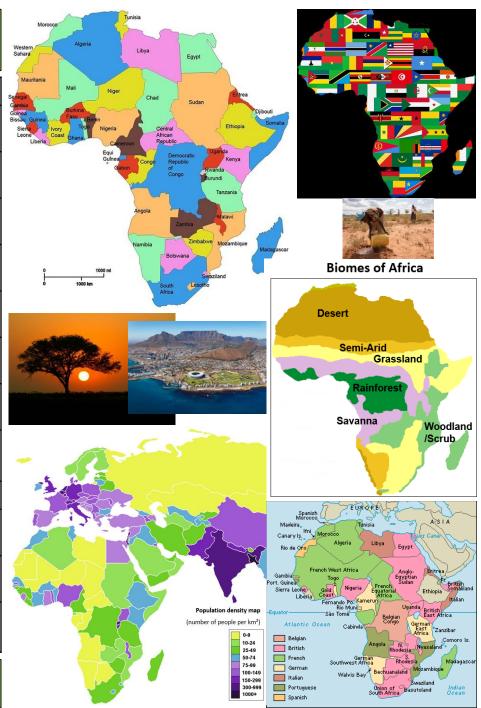






Geography Knowledge Organiser Year 8: **Africa**

Key Word	Definition
Africa	One of the seven continents of the world, made up of fifty-four countries.
Political Map	A map that shows countries and cities. Often they use false colours to show this clearly.
Climate Graph	A graph which shows the climate of a place including temperature and precipitation.
Biome	A very large ecosystem which occupies a major climatic region.
Colonisation	The action of settling among and establishing control over the indigenous people of an area.
Population Density	The number of people per square kilometre.
Culture	Ideas, customs and social behaviour of particular people or society.
Ethnic Group	A community or population made up of people who share a common cultural background or descent.
Civil War	A war between citizens of the same country.
Natural Resources	Materials or substances occurring in nature which can be exploited for economic gain.
Trade	The buying and selling of good and services between countries.
Fairtrade	Trade where a fair prices are paid to the producers.



Useful website... https://www.britannica.com/place/Africa

Year 8 Computer Systems

Modern computer systems receive an input, process that data and then produce an output. The data can be sored in memory. They are designed to automate any process by a program. To execute programs that operate on data.

Computing systems need a processor, memory, and storage. Modern systems also rely heavily on communication between them.

Modern computer systems receive an input, process that data and then produce an output. The data can be sored in memory. They are designed to automate any process by a program. To execute programs that operate on data.

Communication Computing systems exchange information and form networks

Programs and data are transferred between computing sys-

Artificial Intelligence (AI)

Machine Learning

"AI has by now succeeded in doing essentially everything that requires 'thinking' but has failed to do most of what people and animals do 'without thinking' – that, somehow, is much harder!"

Donald Knuth, author of The Art of Computer Programming, in **1981**





Hardware Components

The processor (CPU) is the component that **executes** program instructions.

An instruction may:

- Perform arithmetic or logic operations on data
- Perform input/output of data

The **storage** (secondary memory) is the set of components that **stores** programs and data.

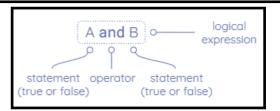
Storage is **persistent**: it retains its con-

The main memory is the component that stores the programs and data currently in use. Main memory is referred to as RAM.

Memory is volatile: its contents are lost

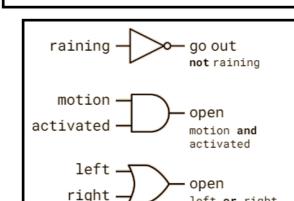
Logical Operators

Logical operations operate on statements that are **true** or **false**. There are three basic logical operations. AND OR NOT



Logical expressions — **logic circuits** can be represented using diagrams

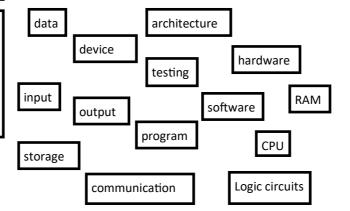
Logical operations — **logic gates** can be represented using symbols



left or right

FREE or OPEN software is where creators of a program can choose to provide access to its source code. This means that anyone can 'see inside' the program to understand how it works. check for errors, suggest improvements, and 'remix' it. Whilst still acknowledging the source.

More key words



Developing for the Web

Hyper Text Markup Language (HTML) is a basic programming language for building web pages. It uses a set of predefined tags that the web browser then interprets and displays.

The World Wide Web is responsible for standardising HTML and releasing updated specifications that revise existing tags and introduce new tags. Web pages contain different types of information including images, text and multimedia.

Using HTML to create websites

HTML can be written in a simple text editor like Notepad. As long as it is saved with file extension.html eg: myfirstwebpage.html it can be opened and viewed as a webpage from a browser.

Key Vocabulary

Web Browser: An application used to view webpages eg Google Chrome, Firefox, Microsoft Edge, Safari, Internet Explorer.

HTML: (Hyper Text Markup Language) Used to write and create web.

Hyperlink: A link in a document or webpage that connects to another location.

Internet: A global network connecting millions of computers together.

Website: A webpage or group of webpages hosted on a web server and viewed in a web browser,

Key Facts

- Web pages contain different types of information including images, text and multimedia.
- There is no central storage for websites.
- The World Wide Web (WWW) is a huge collection of websites that we can access using the internet.
- Each website contains web pages which are navigated via hyperlinks.

HTML Tags:

	1
<u><html></html></u>	States that the
	document is a
	HTMl document .
<body></body>	Information
	appears in the
	body of the page.
<u><h1></h1></u>	The main heading
	for the web page.
<u></u>	The beginning of a
	new paragraph.
	Image for web
	page and file type
	of image example:
	Jpg, Png, gif
<u> </u>	Add a blank line
	A link to other web
	sites

Ranking algorithm

Used to rank the importance of web pages and considers:

- when the page was last updated
- webpages that link to a found page
- other webpages that a found page links to

Gathering information

- Search engines use programs known as crawlers or spiders to find content on the World Wide Web.
- These crawlers visit links from one web page to another, recording common keywords that they find.
- By travelling along these links, the crawlers can eventually find newly created content.

Indexing

When crawlers finish their journey, they are stored in a data structure called an index.

The index records the following about each web page:

- Frequently used keywords
- Type of content found, (images, text, etc.)
- Date of last update

CSS Cascading style sheets:

- HTML defines the structure and content of your web page.
- CSS defines the style and layout of web pages.
- CSS can be used to change the style of a whole website, one web page or a single occurrence of an element, e.g.

<h1 style="text-align:center">

What happens when I view a web page?



Threats to networks

Trojan Horse: Programs designed to lock you out of your computer and not let you access the data unless you pay a ransom

Virus: A malicious program that hides inside other files that users might believe are harmless

Spyware: Installed without you knowing and used to track all your activity when you browse the World Wide Web

Ransomware: Executable code that when run damages the files and stops the computer from operating normally

Worm: Exploits the vulnerabilities of a system by finding holes in its security

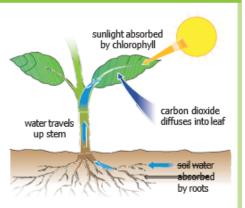
Extra Notes:

Photosynthesis

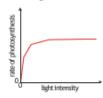
 Photosynthesis is the process which occurs in the chloroplasts to produce glucose using sunlight

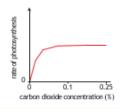
glucose + carbon dioxide → glucose + oxygen

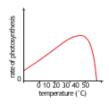
 Any organism that can use photosynthesis to produce its own food is known as a producer, these are not just limited to plants but can include other organisms such as algae



- · The rate of photosynthesis can be affected by:
- · Light intensity the higher the light intensity the higher the rate of photosynthesis up to a point
- Carbon dioxide concentration the higher the carbon dioxide concentration the higher the rate of photosynthesis up to a point
- Temperature the optimum temperature is the temperature at which photosynthesis occurs at the highest rate, before and after this the rate will be less

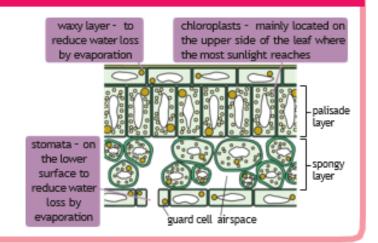






Leaves

- To best adapt for photosynthesis leaves have a number of adaptations
- They are thin to allow the most light through
- There is a lot of chlorophyll to absorb light
- They have a large surface area to absorb as much light as possible





Plant minerals

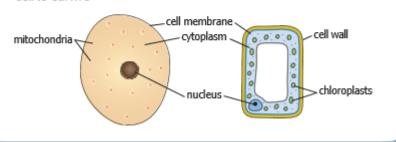
Plants need minerals for healthy growth, if they do not have enough of these minerals this is known as a mineral deficiency

Mineral	What is It used for?	What happens if there is not enough?
nitrates (contain nitrogen)	healthy growth	poor growth and older leaves yellow
phosphates (contain phosphorus)	healthy roots	poor growth, younger leaves look purple
potassium	healthy leaves and flowers	yellow leaves with deadpatches
magnesium	making chlorophyll	leaves will turn yellow

Fertilisers can be used to stop plants from suffering with mineral deficiencies

Plant and animal cells

- To be able to observe a cell we need to use a microscope, this
 magnifies the cell to a point to which we can see it
- Plant and animal cells have small structures inside known as organelles, each of these performs a certain role which allows the cell to survive



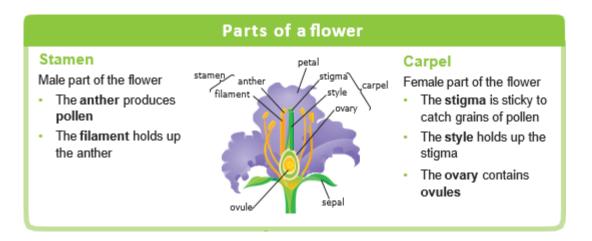
Respiration

- · Respiration is the process in which energy is released from the molecules of food which you eat
- Respiration happens in the mitochondria of the cell
- Aerobic respiration involves oxygen, it is more efficient as all of the food is broken down to release energy
 qlucose + oxygen → carbon dioxide + water
- The glucose is transported to the cells in the blood plasma
- · The oxygen is transported to the cells in red blood cells, by binding with haemoglobin
- Carbon dioxide is a waste product and is transported from the cells to the lungs to be exhaled



Make sure you can write definitions for these key terms.

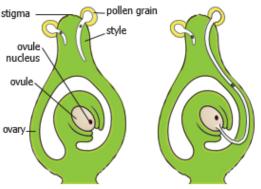
Algae Anther Chlorophyll Chloroplast Fertiliser Light intensity Magnesium Mineral deficiency Nitrates Palisade cells Phosphates Photosynthesis Potassium Producer Rate Spongy layer Stomata Waxy layer



Pollination and fertilisation

Pollination is the **fertilisation** of the ovule, the point at which the pollen is transferred to the ovule from the anther to the stigma, there are two types of pollination

- · Cross pollination is between two different types of plant
- · Self pollination happens within the same plant



The tube grows out of the pollen grain and down through the style.

The pollen nucleus moves down the tube.

The pollen nucleus joins with the ovule nucleus. Fertilisation takes place and a seed will form.

Germination is the process in which the **seed** begins to grow, for this to occur the seed needs:

- · Water to allow the seed to swell and grow and for the embryo tostart growing
- Oxygen for that the cell can start respiring to release energy forgermination
- · Warmth to allow the chemical reactions to start to occur within the seed









Conduction

- Conduction is the transfer of thermal energy by the vibration of particles, it cannot happen without particles
- This means that every time particles collide they transfer thermal energy
- Conduction happens effectively in solids as their particles are close together and can collide often as they vibrate around a fixed point
- Metals are also good thermal conductors as they contain electrons which are free to
- In conduction the thermal energy will be transferred from an area which has a high thermal energy store (high temperature) to an area where there is a low thermal energy store (low temperature)
- Gases and liquids are poor conductors as their particles are spread out and so do not collide often, we call these insulators

thermal store at a high

store at a low emperature

Convection

- Convection is the transfer of thermal energy in a liquid or a gas, it cannot happen without particles
- As the particles near the heat source are heated they spread out and become less dense, this means that they will rise
- More dense particles will take their place at the bottom nearest the heat source creating a constant flow of particles
- This is known as a **convection current**
- Convection cannot happen in a solid as the particles cannot flow, they can only move around a fixed point

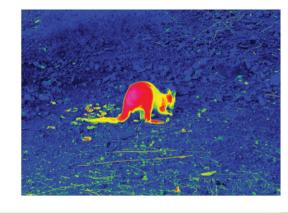


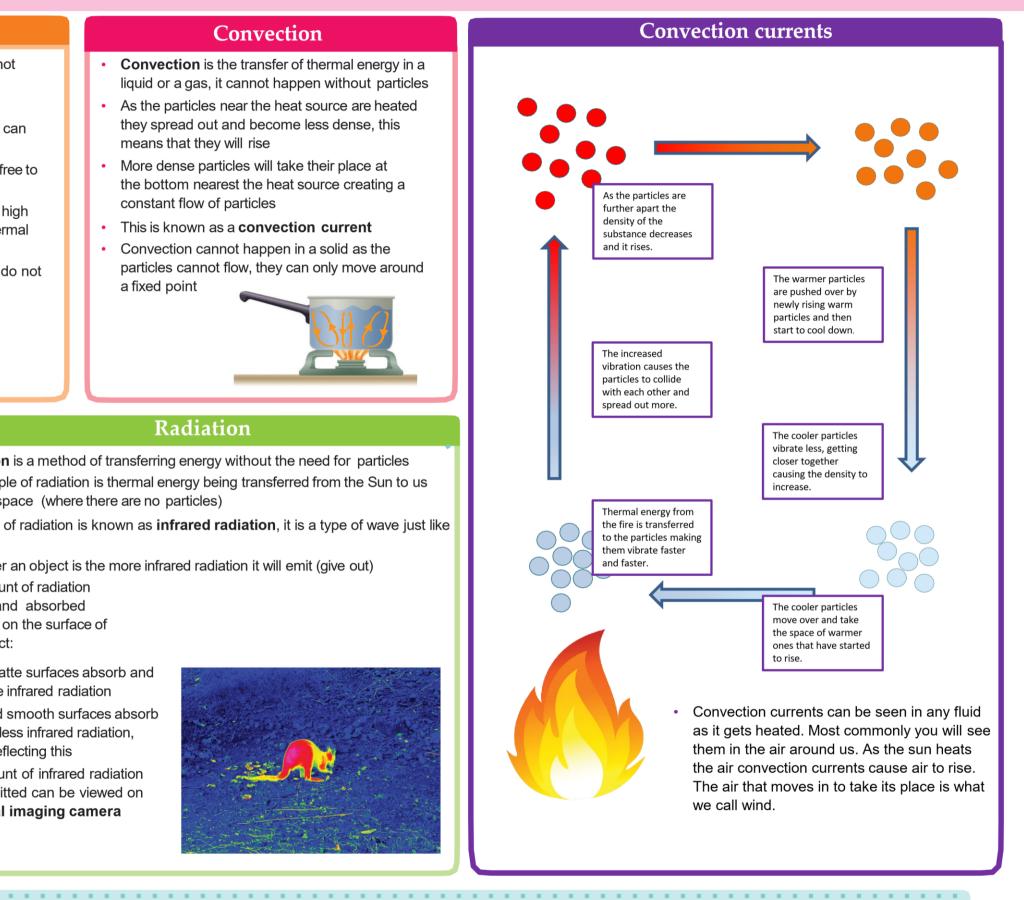
Energy and temperature

- The **temperature** of a substance is a measure of how hot or cold it is
- Temperature is measured with a **thermometer**, it has the units of degrees Celsius (°C)
- The thermal energy of a substance depends on the individual energy of all of the particles, it is measures in
- As all particles are taken into account, a bath of water at 30 °C would have more thermal energy than a cup of tea at 90 °C as there are many more particles
- The faster the particles are moving, the more thermal energy they will have
- When particles are heated they begin to move more
- The energy needed to increase the temperature of a substance depends on:
- the mass of the substance
- · what the substance is made of
- how much you want to increase the temperature by

Radiation

- **Radiation** is a method of transferring energy without the need for particles
- An example of radiation is thermal energy being transferred from the Sun to us through space (where there are no particles)
- This type of radiation is known as **infrared radiation**, it is a type of wave just like
- The hotter an object is the more infrared radiation it will emit (give out)
- The amount of radiation emitted and absorbed depends on the surface of the object:
- Darker matte surfaces absorb and emit more infrared radiation
- Shiny and smooth surfaces absorb and emit less infrared radiation, instead reflecting this
- The amount of infrared radiation being emitted can be viewed on a thermal imaging camera





Keyterms

Make sure you can write definitions for these key terms.

conduction convection convection current

thermometer

density

thermal conductor

insulator

infrared radiation

thermal energy store

temperature

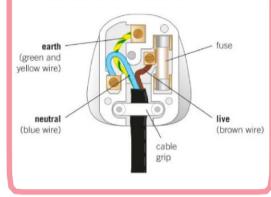
thermal imaging camera

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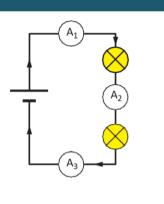
Wiring a Plug

- Most appliances are attached to the electricity supply using a three pin plug.
- These are usually made from a hard wearing plastic as plastic is an insulator.
- There are three wires in the plug; the Earth, the live and the **neutral** wire.
- Plugs contain a fuse which breaks the circuit if the current flowing gets too high.
- We use brass for the pins as it is a good conductor and hard wearing.
- Copper is used for the wires as it is an excellent conductor.



Current

- Current is the amount of charge flowing per second
- The charges that flow in a circuit are **electrons**, they are negatively charged
- **Electrons** leave the negative end of the **cell** and travel around the circuit to the positive end of the cell
- Current has the unit of Amps (A) and is measured with an **ammeter** (which is placed in series or in the main circuit)

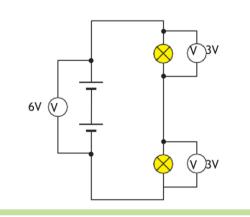


Potential difference

- **Potential difference** is the amount of energy transferred by the cell or **battery** to the charges
- The value of potential difference tells us about the force applied to each charge and then the energy transferred by each charge to the component which it passes through
- Potential difference has the unit of volts (V) and is measured with a
- voltmeter (which is placed in parallel to the circuit)

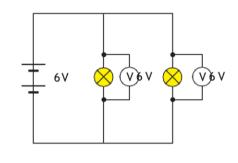
Series circuits

- Series circuits only have one loop
- If one component breaks, the whole circuit stops working
- Current is the same everywhere in a series circuit
- The total potential difference from the battery is shared between the components in a series circuit
- Adding more bulbs decreases the brightness of the bulbs



Parallel circuits

- Parallel circuits have more than one loop
- If one component breaks, the rest of the circuit will still work
- Current is shared between the different loops in the circuit
- The potential difference is the same everywhere in the circuit
- Adding more bulbs does not affect the brightness of the bulbs



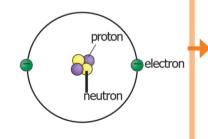
Electrical signals in the body

- **Nerve** cells are long and thin and carry electrical impulses around the body.
- Electricity from our surroundings can over power these impulses and cause us harm.



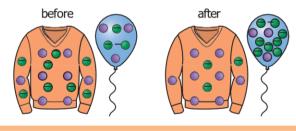
The atom

- The atom consists of a central nucleus with electrons orbiting around the outside in shells
- Electrons have a negative charged
- **Protons** are inside the nucleus and have a positive charge
- Neutrons are inside the nucleus and have a neutral charge



Static electricity

- Static electricity is the caused by the rubbing together of two insulators
- This causes electrons to be transferred, leaving one object with a positive charge, and one object with a negative charge

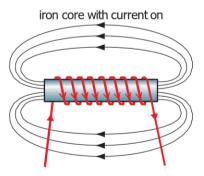


Like charges will repel, opposite charges will attract



Electromagnets

- Electromagnets are made by wrapping a coil of wire around a magnetic core
- Electromagnets only work when electricity is flowing through the coil, which means that they can be turned on and off
- Electromagnets are also stronger than **permanent** magnets
- The electromagnet will produce the same magnetic field shape as a bar magnet



- You can increase the strength of an electromagnet by:
- Increasing the number of turns on the coil around the core of the electromagnet
- Increasing the current which is flowing through the coil of wire
- Using a more magnetic material for the core, e.g. iron rather than aluminium

Key terms

Make sure you can write definitions for these key terms.

Ammeter, atom, attract, battery, cell, conductors, current, electrons, electric charge, insulator, neutral, neutrons, potential difference, protons, repel, resistance, parallel, series, voltmeter

Romeo & Juliet by William Shakespeare

Main Characte	ers
Romeo Montague	The male heir of House Montague. He falls in love with Juliet, despite their families being in a long-standing feud. He is impulsive and dramatic, and kills himself when he thinks Juliet is dead.
Juliet Capulet	The female heir to House Capulet. Her family want her to marry a rich man, Paris, but she refuses. She pretends to be dead to avoid the marriage, but ends up killing herself after Romeo.
Friar Laurence	Thinks uniting Romeo and Juliet will end the feud. He marries them in secret, wishing for peace.
The Nurse	Always caring for Juliet, until she tries to convince Juliet to marry Paris.
Mercutio	Romeo's best friend. Fur -loving and energetic, he often gets involved in arguments and fights.

Key Vocabulary	
Aqua Vitae	Water of life (liquor)
Fettle	Strengthen, prepare
Jocund	Cheerful, helpful
Prorogued	Delayed, postponed
Apothecary	A health professional trained in using drugs
Pernicious	Exceedingly harmful
Paramour	A lover, usually secret
Patriarchy	Where men hold the power within society
Adversary	Enemy, antagonist
Nuptial	Wedding

Verona was a city in Italy where the wealthy elites became the upper class, with lots of money and interest in arts. Romeo and Juliet is a tragedy, but also was aimed at the wealthy families that couldn't look past their own self-importance. It was written between 1591 and 1595, and took on different influences from myths and literature before Shakespeare's time. It has also been adapted into a wide range of modern stories, such as West Side Story, Romeo Must Dire, and even High School Musical.

Language Devices Used		Theme
Sonnet	A 14-line lyric poem, usually written in iambic pentameter, that has one of several rhyme schemes.	Love and
Soliloquy	A speech in which a character is alone on stage and expresses thoughts out loud	Fate
Oxymoron	A figure of speech that combines apparently contradictory terms "sweet sorrow"; "loving hate"	
lambic Pentameter	5 verse feet with each foot an iamb (a total of ten syllables)	
Foreshadowing	The use of hints or clues in a narrative to suggest what action is to come	Individua Society
Dramatic Irony	A contrast between what the audience perceives and what a character does not know	
Couplet	2 consecutive lines of poetry that rhyme	Language
Blank Verse	Unrhymed iambic pentameter	Wordplay
Monologue	A long, uninterrupted speech presented in front of other characters	
Aphorism	A statement of truth or opinion expressed in a concise and witty manner.	

Themes of the Play		
Love and Violence	The play's main storyline is of the two young lovers who eventually kill themselves. The themes of love and violence are connected throughout	
	the play.	
Fate	Described as "star- crossed lovers", there is the idea that it is fate	
	that is guiding the lovers towards doom. Romeo at one point says he will "deny" the stars,	
	suggesting he believes he can reverse fate.	
Individual vs. Society	Romeo & Juliet's love runs afoul of their fami- lies, and the political and religious authorities that	
	govern Verona. It would appear that they repre- sent the lower-classes that were ignored by the upper classes.	
Language and	There are approximately	
Wordplay	175 instances of puns and wordplay through- out the play, showing his characters rebelling, joking, or using sexual	
	Fate Individual vs. Society Language and	

Romantic Poetry

Language Devices	
Alliteration	Repetition of the same letter at the start of two or more words
Connotation	Associated meaning of the word
Extended Metaphor	When an author uses a metaphor throughout a long passage or even an entire poem
Imagery	Visually descriptive language
Metaphor	Saying something <u>is</u> something else, for effect
Onomatopoeia	Where words are used to imitate sounds
Personification	Making objects have human characteristics
Simile	Comparing using "like" or "as"
Sibilance	The repetition of an "s" sound in one or more words
Theme	The central idea of a piece of literature

Structure	
Caesura	A piece of punctuation in the middle of a line that creates a pause in the rhythm
End-stopped line	A line ending in a full pause
Enjambment	A sentence which continues, without punctuation, into the line below
Meter	The measured pattern of rhythm in poetry
Repetition	A repeated word or phrase, usually used for emphasis
Rhyming Couplet	Two consecutive lines of poetry that rhyme
Rhyme	Words that share the same vowel sound and end the same.
Stanza	The paragraphs or verses within a poem

Form	
Ballad	A narrative poem written in four-line stanzas, with quick action and narrated
Blank Verse	Non-rhyming lines written in iambic pentameter
Dramatic Monologue	Where the speaker addresses an internal listener
Free Verse	Poetry without a regular pattern of meter or rhyme
Lyric	A poem that expresses personal and emotional
Ode	A poem written in praise or celebration of a person,
Pastoral	A poem about nature, or
Sonnet	A 14 line poem in iambic pentameter and a regular

Speaker	The voice behind the poem—not the poet. This is the narrator— who we imagine to be
Sublime	A sense of grandeur or power—something that inspires a feeling or awe and amazement.
Oppression	The exercise of authority or power in a cruel or
Individualism	A social theory prefer- ring freedom of action for individuals rather than collective or state/

Key Terms

Context: Romanticism is the name given to a movement in literature between 1770s to mid 1800s. It was developed in reaction to the dominant style of the period before it, and involved a revival of classical ideas. These included Greek and Roman authors of the past. Romanticism was associated with radical and revolutionary political ideas, reacting against the conservative mood of European society.



Year 8 Spring Term	Key dates Key people				
French Revolution	1776	American colonies declare themselves independent from Britain	Voltaire	French Enlightenment writer, historian, and philosopher famous for his advocacy of freedom of speech, freedom of religion, and separation of church and state	
and Slavery	1787-88	Poor harvests in France	Louis XVI	The last king of France before the fall of the monarchy during the French Revolution.	
<u> </u>	14 th July	French citizens storm the Bastille in	Marie Antoinette	The last queen of Franc	ce before the French Revolution. She was born an archduchess of Austria.
Lesson Content	January	Paris Louis XVI is executed	Maximilien Robespierre	French lawyer and stat Revolution.	esman who was one of the best-known and most influential figures of the French
	1793	Louis AVI is executed	Joseph-Ignace Guillotin		he National Assembly that capital punishment should always take the form of s of a simple mechanism
The French Revolution - Overview	October 1793	Marie Antoinette is executed	Napoleon Bonaparte		onaparte, a French statesman and military leader who became famous as an artillery
Overview	Sept.	The Reign of Terror begins. It lasts		commander during the	
The causes of the	1793	until July 1794	Marshal Ney	French military commander and Marshal of the Empire who fought in the French Revolutionary Wars and the Napoleonic Wars. He was one of the original 18 Marshals of the Empire created by Napoleon I.	
Revolution	1799	Napoleon becomes First Consul of France	The Duke of Wellington		Tory statesman who was one of the leading military and political figures of 19th- twice as Prime Minister
	1804	Napoleon becomes Emperor of France	Sir John Hawkins	Sir John Hawkins was a navigator, shipbuilder,	pioneering English naval commander and administrator, slave trader, spy, merchant, and privateer.
How bad was Louis XVI?	1815	Napoleon loses the Battle of Waterloo	Edward Colston	Bristol-born merchant who made the bulk of his fortune from the slave trade, particularly between 1680 and	
	18 th Century	Sugar plantations expand rapidly in the Caribbean	Olaudah Equiano	1692. Enslaved as a child, he was taken to the Caribbean and sold as a slave to a Royal Navy officer. He was so	
What did the Revolution	onwards	#TI D. I. " C		twice more but purcha	sed his freedom in 1766
cnange?	change? 1780-81 "The Brookes", a famous slave ship is constructed in Liverpool		Mary Prince	The First Woman to Present a Petition to Parliament. Mary Prince was born in 1788, to an enslaved family in Bermuda. She was sold to a number of brutal owners and suffered from terrible treatment	
What was "The Terror"?			Key Words - Glossary		
	revolution	a forcible overthrow of a government or s	ocial order, in favour of a new system.	Revolutionary Tribunal	a court instituted by the National Convention during the French Revolution for the trial of political offenders.
Who was Napoleon	The a European intellectual movement of			The reign of	a period of remorseless repression or bloodshed
Bonaparte?	enlightenme	emphasizing reason and individualism rath	emphasizing reason and individualism rather than tradition.		
	famine	extreme scarcity of food		Coup d'etat	a sudden, violent, and illegal seizure of power from a government.
What happened to Napoleon Bonaparte?	The bastill	e a fortress in Paris, used as a prison, built in 14, 1789.	a fortress in Paris, used as a prison, built in the 14th century and destroyed July 14, 1789.		the state of being barred from one's native country, typically for political or punitive reasons.
Napoleon Bonaparte:	Estates Gene		the legislative body in France until 1789, representing the three estates of the realm (i.e., the clergy, the nobility, and the commons).		a republic in W Africa, on the Bight of Benin , a section of the Gulf of Guinea: in the early 19th century a powerful kingdom,
The Slave Trade	National assembly	■	e first part of the Revolution, 1789–91.	Triangular trade	the trade in the 18th and 19th centuries that involved shipping goods from Britain to West Africa to be exchanged for slaves, these slaves being shipped to the West Indies and exchanged for sugar, rum, and other commodities which were in turn shipped back to Britain.
Everyday Life	Everyday Life Tuileries palace a royal and imperial palace in Paris Seine.		stood on the right bank of the River	middle passage	the sea journey undertaken by slave ships from West Africa to the West Indies
Punishment Flight to Varennes			King Louis XVI of France, his queen Marie Antoinette, and their immediate family unsuccessfully attempted to escape from Paris		a person who supervises others, especially workers.
	guillotine	a machine with a heavy blade sliding verti people.	cally in grooves, used for beheading	castration	the removal of the testicles of a male animal or man
Key resources: www.tecchistoryks3.blogspot.com	· II			r 1 GCSE History, Questions 6a – 8 or 9	

KNOWLEDGE ORGANISER



PANTOMIME



KS3
Spring 1

Origins of Pantomime

The origins of British Pantomime or Panto as it is affectionately known in the UK, probably date back to the middle ages, and blend the traditions of the Italian "Commedia dell' Arte, and the British Music hall to produce the art form that is Pantomime. "Commedia dell' Arte was a type of travelling street entertainment which came from Italy in the 16th century.

Commedia was a very physical type of theatre that used dance, music, tumbling, acrobatics and buffoonery. Commedia dell'Arte troupes had a repertoire of stories that they performed in fairgrounds and market places. Often the touring troupes were made up of family members who would inherit their characters, costumes, masks and stories from their parents or grandparents.



Main Characters

Another element of "Traditional" pantomime is the "Principal boy" role [played by a female] although the role is that of a boy hero. The female playing the principal boy usually dresses in short, tight fitting skirts [the shorter and tighter the better] accompanied by knee-high leather boots and fishnet stockings.

FAIRY TALE CHARACTERS

The Dame is played by a male member of the cast, dressed in drag; this character is usually portrayed as old, unattractive and fairly common, all qualities which she believes she is the exact opposite of! She befriends the two principals early in the story and is usually instrumental in all the good acts they perform in the course of the story; and quite often ends up "living happily ever after" either with the Principal Girl's kindly old widowed Father/Uncle/Guardian or with the ultimately-reformed Principal Baddie.

Audience Participation

Audience participation is an important part of pantomime. This can involve audience members shouting out and joining in songs. They can even be invited on stage to take part





The fairy Queen and the Demon King appear in all pantomimes, although their exact guise and title may differ. From Old King Rat to modern Fairy Liquid, Peter Pan and Hook, names vary according to the location and topicality of shows, but certain stage directions nearly always hold strong. Good enters from stage right and Evil from stage left. This tradition of Evil entering from the sinister side goes back to the mystery plays and the few working star traps [through which the demon used to be projected in a puff of smoke] can always be found in the down stage left position. This tradition seems to echo medieval times, when the entrances to heaven and hell were placed on these sides. The story nearly always revolves around the tried and tested formula of good conquering evil. And requires the principal baddie to make all the innocent character's lives a misery, from the beginning. But by the end of the show, all the baddies and their henchmen will have either been destroyed, or be made to see they error of their ways and turn into reformed characters.







KNOWLEDGE ORGANISER

Theatre, as the most public of art forms, has a particular

part to play in the collective exploration of ideas, values and feelings – as a space and place in which society might be

reshaped through the imagination.' (Nicholson 2005: 19)

Developing insight/understanding/

Sensitive way to approach difficult



Homelessness

Year 8
Spring 2

Why Issue-Based Drama? Individuals often become homeless as a result of extreme personal difficulties, which may take the form of: • A troubled childhood

- Mental or physical illness
- Involvement in crime, which may have commenced at an early age
- Substance misuse
- Relationship breakdown
- Victimisation by violent crime
- Bankruptcy
- · Ejection from the home of a relative or friend
- Eviction from a rented property







Greek Theatre

Transformation/Change

Creates discussion

empathy

topic



We are the national charity for homeless people. We help people directly out of homelessness and campaign for the changes needed to solve it altogether.

You will be introduced to Epic Theatre

Bertolt Brecht 1898-1956

German playwright, Bertolt Brecht's ideas are very influential. He wanted to make the audience think, and used a range of devices to remind them that they were watching theatre and not real life. This is a good type of theatre to use if you want to provoke your audience. It is a theatre of social change.

- The narration needs to be told in a montage style.
- Techniques to break down the fourth wall, making the audience directly conscious of the fact that they are watching a play.
- Use of a narrator. ...
- Use of songs or music. ...
- Use of technology. ...
- Use of signs. ...
- Use of freeze frames / tableaux .

Documentary Theatre	Documentary theatre is theatre that uses pre- existing documentary material (such as newspapers, government reports, interviews, journals, and correspondences) as source material for stories about real events and people, frequently without altering the text in performance.	
Promenade Theatre	As a genre, promenade theatre is extremely versatile. With no formal stage, and the audience and actors occupying the same space, it allows for experimentations with both new and old plays, and explores what the theatrical experience can entail for an audience. In moving the audience around throughout the performance, promenade theatre also pushes boundaries of setting in a way that can't be achieved in regular theatre.	
Monologue	Characters express their thoughts through monologues, and use them to deliver important speeches to the audience and other characters. They can be used to share feelings, plans, anxieties—anything that a character needs to communicate that can only be accomplished through speech.	

Other Key Forms of Theatre that you will Explore

KNOWLEDGE

Efficacy

Dose



Biology Topic B5 + B6 Communicable Diseases

ORGANISER

Section 4:	Preventing Infections
Hygiene	Hand washing, disinfectants on work surfaces, keeping raw meat away from food
Isolation of infected individuals	Infected individuals kept separate from healthy individuals
Destroying and controlling vectors	By killing or controlling vectors e.g. mosquitos, aphids, rodents etc the spread of disease is reduced
Vaccination	Body is injected with a small amount of inactive pathogen. If you are infected your body has developed immunity to the pathogen.
Section 6:	Clinical Trials

Trial Stage	Purpose
Preclinical – cells, animals	Test for toxicity and efficacy before testing
	humans
Healthy volunteers	Very low doses to test for toxicity.
Patients	Larger groups. Test for toxicity , efficacy and dose . Placebos may be used in a double-blind trial .
Clinical Trial Key Terms	
Placebo	A drug with no active ingredients , designed to mimic a real drug . Used to test if the effects of a drug on a patient are just psychological .
Double-blind trial	The volunteers do not know which group they are in, and neither do the researchers, until the end of the trial
Toxicity	How harmful the drug is. May have dangerous side effects .

How **effective** the drug is.

The **amount** of the drug given to the patient.

Role of white blood cell	How it protects you against disease
Ingesting microorganisms bacterium white blood cell	Some white blood cells ingest (take in) pathogens, digesting and destroying them so they cannot make you ill.
Producing antibodies antibody antigen bacterium white blood cell antibody attached to antigen	Some white blood cells produce special chemicals called antibodies. These target particular bacteria or viruses and destroy them. You need a unique antibody for each type of pathogen. When your white blood cells have produced antibodies once against a particular pathogen, they can be made very quickly if that pathogen gets into the body again. This stops you getting the disease twice.
Producing antitoxins white blood cell antitoxin molecule toxin and antitoxin joined together toxin molecule bacterium	Some white blood cells produce antitoxins. These counteract (cancel out) the toxins released by pathogens.

Section 7	:
Drugs from plants	Traditionally drugs were extracted from plants
Penicillin	Discovered from penicillium mould

KNOWLEDGE



Biology Topic B5 + B6 Communicable Diseases (Separate Higher)

ORGANISER

Section 1: Monoclonal antibodies

Monoclonal antibodies are identical copies of one type of **antibody** produced in a laboratory.

How to produce monoclonal antibodies:

- 1. A mouse is **injected** with a pathogen
- 2. White blood cells called **lymphocytes** produce **antibodies** 3. Lymphocytes are removed from the mouse and **fused** with
- rapidly dividing mouse tumour cells
- 4. The new cells are called **hybridomas**.
- 5. The hybridomas divide rapidly and release lots of antibodies which are then collected

Uses of Monoclonal Antibodies

Monoclonal

Antibodies

Used in treatment of diseases and monoclonal antibodies have been developed against the antigens on cancer cells.

Monoclonal antibodies are bound to radioactive substances (or toxic drugs and chemicals) that stop cells growing and dividing.

Monoclonal antibodies have side effects and are not as widely used in cancer treatment.

Monoclonal antibodies are used for diagnosis in pregnancy tests, in labs to measure levels of hormones and other chemicals in the blood to detect pathogens and to identify molecules in cells or tissues.

Section 2: Culturing microorganisms in the laboratory



Sterilise the inoculating loop used to transfer microorganisms to the agar by heating it until it is red hot in the flame of a Bunsen and then letting it cool. Do not put the loop down or blow on it as it cools.



Dip the sterilised loop in a suspension of the bacteria you want to grow and use it to make zigzag streaks across the surface of the agar. Replace the lid on the dish as quickly as possible to avoid contamination.



Fix the lid of the Petri dish with adhesive tape to prevent microorganisms from the air contaminating the culture - or microbes from the culture escaping. Do not seal all the way around the edge - as oxygen needs to get into the dish to prevent harmful anaerobic bacteria from growing.



The Petri dish should be labelled and stored upside down to stop condensation falling onto the agar surface.

Section 3: Preventing Bacterial Growth

Bacteria multiply by simple cell division if they have enough nutrients and a suitable temperature

You can investigate the effects of disinfectants and antibiotics on bacterial growth using agar plates and calculating the cross-sectional area of colonies grown or of clear areas of agar

KNOWLEDGE



ORGANISER

Section 4: More about Plant Diseases

Plants can be infected by a range of viral, bacterial and fungal pathogens as well as insect pests.

We cant detect a plant is diseased by looking for unusual growths, spots or discoloured leaves and malformed leaves and stems.

If a plant disease is suspected then it can be identified by:

Gardening manuals

Gardening websites

Test kits containing monoclonal antibodies

Taking infected plants to a laboratory to identify the pathogen

Monoclonal antibodies are used for diagnosis in pregnancy tests, in labs to measure levels of hormones and other chemicals in the blood to detect pathogens and to identify molecules in cells or tissues.

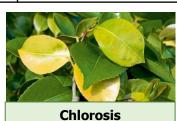
Section 6: Deficiency of Mineral Ions

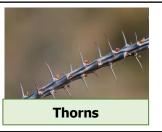
Nitrate ions	Needed by plants for protein synthesis and growth. Lack of nitrate ions results in stunted growth of plants.
Madnesium ions - i	Needed by plants to produce chlorophyll. Lack of magnesium ions results in chlorosis (yellowing of leaves due to lack of chlorophyll)

Section 7: Plant defence responses		
Type of plant defence used (mechanical, physical or chemical)	What is the plant being defended against?	Describe the defence being used
Mechanical	Herbivores eating it	Thorns or hairs
Chemical	Pathogens/bacteria Herbivores/animals	The chemical released is antibacterial or poisonous
Physical	Herbivores and pathogen entry	Dead bark coating which falls off
Physical	Insects such as aphids	Waxy cuticle/cellulose cell walls are hard to penetrate









The String Family

- Usually made from wood
- Sound is produced by plucking or bowing a string to make it vibrate
- Pitch is manipulated by changing the amount of the string which is vibrating (shorter = higher pitch)
- Sound is amplified through the body of the instrument which is hollow and resonates.



• The larger the instrument the lower the pitch

https://www.youtube.com/watch?v=lmPVOFWMFNc

https://www.youtube.com/watch?v=6SKEvs9viaE

The Woodwind Family

- Can be made from a variety of materials
- Sound is produced by either blowing across a hole (Flute/Piccolo) or through a mouthpiece with a single (Clarinet/Saxophone) or double (Oboe/Bassoon) reed.
- Pitch is manipulated by covering holes in the body of the instrument to allow the air to travel further.
- Sound is amplified by the air vibrating through the instrument and out of the key holes and bell as it exits the instrument.

https://www.youtube.com/watch?v=Zv5-BooE9E8

The Brass Family

- · Usually made from metal (Brass)
- Sound is produced by vibrating your lips into an egg-cup shaped mouthpiece
- Pitch is manipulated by 1) changing the length of the tube the sound travels through. This is done with valves, keys or a slide.
 2) varying the tension of the lips.
- Sound is amplified by the air vibrating through the instrument and out of the bell as it exits the instrument.



Mouthpiece

The Families of Instruments



There are 4 families

Instruments belong to a family based on how the sound is produced

Family	How is sound produced?
Strings	A string vibrates by being plucked or bowed
Brass	Lips are buzzed into an egg-cup shaped mouthpiece
Woodwind	Air is blow over a whole or through a mouthpiece with a single or double reed
Percussion	Instruments that are hit, scraped or shaken to produce sound

The Percussion Family

- Made from lots of different materials.
- Sound is produced by hitting shaking or scraping the instrument.
- Pitch is manipulated by the size of the instrument being hit e.g. Xylophone – smaller bars = higher pitch
- Sound is amplified by the instrument resonating.

https://www.youtube.com/watch?v=cUBU34RoJBU

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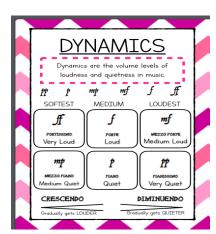


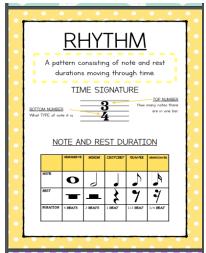
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Harmony can create many moods and textures by creating chords based on <u>SCALES</u>.

The two most used scales are MAJOR & MINOR.



MAJOR

Are generally 'happy' sounding, and give a brighter mood

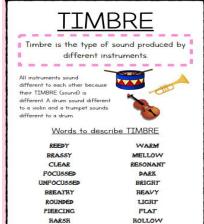


MINOR

Are most likely 'sad' sounding and give a melancholy mood.









Y8 Spring Maths Knowledge Organiser

Topic	Key fact	Hegarty maths clip number
Expanding single brackets	2(y-3) = 2xy - 2x3 = 2y - 6	160 - 161
Plotting linear graphs using a table of values	'	206
Identifying gradient and y- intercept	The number in front of x is called the gradient and tells us how many up (+) or down (-) the graph goes for every 1 across (right). $y = mx + c$ $y = nx + c$ $y = -2x + 5$	207
Calculating with Decimals	Addition and subtraction: line up the decimal point. Multiplication: Change to whole numbers and remember to put the point in at the end. Division: If dividing by a decimal times both numbers by 10, 100 or 1000. Do not put decimal back in.	47 - 51
Four Operations with Fractions	To add and subtract fractions you need to write all fractions in a sum with the same denominator by writing equivalent fractions. Multiplying: Cancel down whenever possible, then multiply the numerators together and multiply the denominators together. Dividing fractions: KFC (Keep the first, Flip the second and Change the sign to x)	65 -78
Sharing in a given ratio	Always find 1 part	332 to 334
Ratio problems	Set out in columns and put information below the appropriate column	335 to 338

Multi-step Angle Reasoning	Angles on a straight line add up to 180°. Angles in a triangle add up to 180°. Angles in a quadrilateral add up to 360°. Vertically opposite angles are equal. Angles around a point add up to 360°.	477 - 480, 484 - 491, 812 - 815
Pie Charts	 Find the angle for each category: 360° ÷ total frequency = the number of degrees per piece of data To work out each category's associated angle we multiply the number of degrees per piece of data by each frequency. Top Tip: Always draw each angle clockwise, using the previous line drawn to start. 	427 - 429
Proportion	Direct proportion: as one quantity increases so does the other Inverse proportion: as one quantity increases the other decreases	339 to 342

Key Vocabulary

- Numerator the top number in a fraction. Denominator the bottom number in a fraction.
- Mixed number a number consisting of an integer and a proper fraction. Improper fraction an improper fraction is a fraction where the top number (numerator) is greater than or equal to the bottom number (denominator): it is top-heavy.
- o Direct proportion one quantity increases at the same rate as the other quantity increases. o Inverse proportion one quantity increases at the same rate as the other quantity decreases. o Rate a price or charge set according to a scale or standard hotel rates.
- \circ Quantity the amount of something. \circ Expand to multiply the term before bracket by the terms in the bracket. \circ Expression collection of terms. E.g 4x + 8p.

_ 0

Gradient – the steepness of a curve

 \circ Linear Graph – straight line graph $y=mx+c\circ Y$ -intercept – where the graph crosses the y axis

Mean, Median,	Mean: Add up all the numbers and then divide by the number of	404 -410 And
Mode and Range	items.	419 – 421
(recap averages)	Median: Put in order and then find the middle. If two middle values then add the two middle numbers and divide by 2. Mode: The number that appears the most. There can be more than one mode. Range: The difference between the largest and smallest numbers.	



Paris

Scan the OR code with your phone camera to practise on Quizlet



Complex connectives

où: where aui: who/which quand: when

si: if

donc : so /therefore car: because parce que: because

A Paris In Paris llva There is

La tour Eiffel

Les Champs Elysées L'Arc de Triomphe

La Joconde

Le musée du Louvre/Le Louvre

La Seine

La Grande Arche de la Défense

Le Sacré Coeur

La Cité des Sciences et de l'Industrie

La Cathédrale Notre-Dame



On peut We can

I will/ I'm going Je vais **FOLLOWED BY Infinitive verbs:**

visiter to visit aller to ao to travel voyager

to eat at the restaurant manger au restaurant acheter des souvenirs to buy souvenirs voir les monuments to see the monuments voir les peintures to see the paintings

faire les magasins to go shopping

faire un tour en bateau mouche to do a tour on a boat faire du Segway/du roller to go on a Segway/rollerskating

prendre des photos to take photos boire (une limonade au café) = to have a drink

se promener (sur les bords de la Seine) to go for a

walk (by the river Seine)

se balader to have a stroll (SLANG)

découvrir to discover

Subject pronouns

Je

l Tu you (informal)

he Elle she

On we (informal) Nous we (formal)

Vous you (plural or singular formal) they (mixed or males) lls

Elles they (females)

Les opinions

I think that... Je pense que.. C'est it is C'était It was It will be Ce sera génial great intéressant interesting fatigant tirina captivant captivating rengaine borina dull banal disguting dégoutant not bad pas mal ennuveux boring Intensifiers:

très very auite assez vraiment really

SLANG

super(very) super hyper very trop SO carrément totally

Voyager dans le monde Travel the world

How to say to a country:

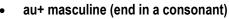
en + feminine (end in E)

en France en Espagne

en Italie en Ecosse

en Analeterre

en Cornouaille



au Portugal au japon

*au pays de Galles

aux + plural (end in X or S)

aux Etats-Unis aux Caraïbes aux Canaries aux Sevchelles

To a city: à Paris

To a region: dans le devon Comment?

How?

à vélo by bike by plane en avion en bateau by boat en bus by bus by coach en car en métro on the metro en train by train en voiture by car à pied on foot by motorbike à moto

C'est it is plus more moins less aue than cher expensive confortable comfortable économique cheap bon marché cheap rapide fast

slow lent écologique environmentaly friendly practical pratique

Quand? When? Samedi Saturday Sunday Dimanche matin mornina après-midi afternoon evening soir Demain

tomorrow La semaine prochaine next week Le weekend prochain next weekend L'année prochaine next year Hier yesterday La semaine dernière last week Le weekend dernier last weekend L'année dernière last vear

D'abord first (of all) Puis then Ensuite next Aussi also Mais but

after (that) Après (ca) finally Finalement

Past tense verbs

J'ai /on a visité I/ we visited J'ai/on a acheté I/ we bought J'ai /on a voyagé I/ we travelled J'ai/on a mangé I /we ate J'ai/on a vu I/ we saw J'ai on a pris I/ we took J'ai/on a fait I/ we did J'ai /on a découvert I/ we discovered

MOTION VERBS —

NOTE: add E for fem/ S for plural ie suis / on est allé(e)(s) I/ we went

ie suis / on est monté I/ we went up ie suis / on est resté I/ we stayed I/ we went back ie suis / on est rentré ie suis / on est arrive I/ we arrived I/ we left ie suis / on est parti

SEE MORE ON YOUR VERB TABLE

Organise hacemos Knowledge Qué Spanish ∞ Year

¿Qué te gusta comer y beber?	What do you like to eat and drink	
¿Qué no te gusta come?	What don't you like to eat?	
¿Qué no te gusta beber?	What don't you like to drink?	
Me gusta(n) mucho	I really like	
Me encanta(n)	I love	
No me gusta(n) nada	I don't like at all.	
Odio	I hate	
Prefiero	I prefer	
el agua	water	
el arroz	rice	
la carne	meat	
los caramelos	sweets	
la fruta	fruit	
las hamburguesas	hamburgers	
los huevos	eggs	
la leche	milk	
el marisco	seafood, shellfish	
el pescado	fish	
el queso	cheese	
las verduras	vegetables	
Lo siento, no puedo	m sorry, I can't	

¿Quieres salir? Do you want to go out? Tengo que... I have to... cuidar a mi hermano look after my brother do my homework hacer los deberes lavarme el pelo wash my hair ordenar mi dormitorio tidy my room pasear al perro walk the dog salir con mis padres go out with my parents I don't want to. No quiero. I don't have any money. No tengo dinero. He/She can't ao out. No puede salir.

¿A qué hora?	At what time?
a las	at
seis	six o'clock
seis y cuarto	quarter past six
seis y media	half past six
siete menos cuarto	quarter to seven
siete menos diez	ten to seven

¿Te gustaría ir al cine? Would you like to go to the cinema? ¿Te gustaría ir...? Would you like to go ...? to the bowling alley a la bolera a la cafetería to the café to the shopping centre al centro comercial to the museum al museo to the park al parque a la pista de hielo to the ice rink al polideportivo to the sports centre a mi casa? to my house

¿Cómo te preparas?	How do you get ready?
¿Cómo te preparas ?	How do you get ready?
Me baño.	I have a bath.
Me ducho.	I have a shower.
Me lavo la cara.	I wash my face.
Me lavo los dientes.	I brush my teeth.
Me visto.	I get dressed.
Me maquillo.	I put on make-up.
Me peino.	I comb my hair.
Me aliso el pelo.	I straighten my hair.
Me pongo gomina.	I put gel on my hair.

Una fiesta mexicana

¿Qué vas a comprar?

¿Qué vas a traer?

Voy a traer...

Voy a comprar...

un pimiento verde

un kilo de tomates

medio kilo de queso

200 gramos de pollo

una botella de limonada

un pimiento rojo

quesadillas

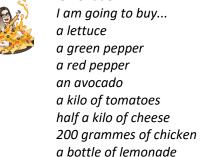
una lechuga

un aguacate

limonada

A Mexican party

What are you going to bring? What are you going to buy? I'm going to bring... quesadillas (toasted cheese tortillas) lemonade I am going to buy... a lettuce



To revise this topic





¿Y tú? ¿Qué opinas? And you? What do you think? Pues... Well... It depends... Depende...

No sé... I don't know...

Eh... Er...

Let's see... A ver...

OK... Bueno, Vale...

High-frequency words Palabras muy frecuentes at ... o'clock a las... bastante quite day día favorito, favorita favourite hora time lugar place for para por ejemplo for example pasado, pasada last que viene next

¿Qué vas a llevar?

What are you going to wear?

llevo...

a shirt una camisa a T-shirt una camiseta un jersev a jumper una sudadera a sweatshirt

una falda a skirt un vestido a dress а сар

una gorra unos pantalones unos vaqueros

some jeans unas botas some boots some shoes

unos zapatos unas deportivas Voy a ir al/a la...

Voy a llevar...

I'm going to wear...

I'm going to the...

some trainers

some trousers

Year 8 Grammar Term 2 -Qué hacemos

Near future tense

The near future is used to talk about what you are going to do. Use the present tense of the verb ir followed by a plus the infinitive.

voy a salir con mis amigos I am going to go out with my friends

vas a comer paellayou are going to eat paellava a ir a una fiestahe/she is going to go to a partyvamos a jugar al fútbolwe are going to play footballvais a chatearyou are going to chat online

van a hacer los deberes they are going to do their homework

Past tense

The <u>preterite</u> tense is used to talk about **completed** actions that have happened in the **past**.

Ayer hablé con mis abuelos Yesterday I spoke with my grandparents

El año pasado visité Barcelona Last year I visited Barcelona

How to form the Preterite Tense

We form the <u>preterite</u> in the same way do the present tense. It just requires a different set of endings.

- first start with the infinitive form of the verb (the form used in the dictionary. E.g. hablar = to speak).
- look at the last two letters of the infinitive and decide whether it's an -ar, -er or -ir.
 verb.
- then remove the -ar, -er or -ir to find the stem.
- then add the following endings:

	Hablar	Comer	Vivir
I	Habl <mark>é</mark>	Comí	Viví
You Singular	Habl <mark>aste</mark>	Com <mark>iste</mark>	Vi∨ <mark>iste</mark>
He/She/It	Habl <mark>ó</mark>	Com <mark>ió</mark>	Viv <mark>ió</mark>
We	Habl <mark>amos</mark>	Com <mark>imos</mark>	Viv <mark>imos</mark>
You Plural	Habl asteis	Com <mark>isteis</mark>	Vi∨ <mark>isteis</mark>
They	Habl aron	Com <mark>ieron</mark>	Vivieron

* Notice that the Er and Ir endings are the same

The conditional

Me/Te gustaría is the conditional form of me/te gusta. You use it to say what you would like to do. It is often followed by the infinitive.

¿Te gustaría ir a Would you like la cafetería? to go to the café? Me gustaría ir al l would like to go to cine. la would like to go to the cinema.

Adjective endings

Colour words are adjectives and generally follow the normal adjective patterns.

ending in	singular		plural	
	masculine feminine		masculine	feminine
-0	roj o	roj a	roj os	rojas
-е	verd e	verd e	verd es	verd es
-a	rosa	rosa	rosas	rosas
consonant	marrón	marrón	marrones	marrones

Reflexive verbs

Reflexive verbs include a reflexive pronoun.
They often describe an action you do to yourself
– for example, lavarse (to wash oneself/
to get washed).

me lavo
te lavas
se lava
nos lavamos
os laváis
se lava
he/she washes him/herself
we wash ourselves
you (pl) wash yourselves
they wash themselves

Using 3 tenses

Look carefully at verb forms to see which tense someone is using:

present	preterite	near future
bailo	bailé	voy a bailar
como	comí	voy a comer
veo	vi	voy a ver
salgo	salí	voy a salir
voy	fui	voy a ir
es	fue	va a ser

Look at time-markers for clues:

normalmente	el fin de semana pasado	el fin de semana que viene
generalmente	el año pasado	el año que viene
los viernes	el viernes pasado	el próximo viernes

Using 3 tenses

Different types of verbs work like this in the 'l' form in the present, preterite and near future. Train yourself to spot verbs in different tenses:

	infinitive	present	preterite	near future
regular verbs	llevar	llevo	llevé	voy a llevar
	comer	como	comí	voy a comer
	vivir	vivo	viví	voy a vivir
stem-changing verbs	jugar	juego	jugué	voy a jugar
irregular verbs	hacer	hago	hice	voy a hacer
	ir	voy	fui	voy a ir
	ver	veo	vi	voy a ver
	ser	soy (es → it is)	fui (fue → it was)	voy a ser (va a ser → it is going to be)

<u>Year 8 PSHE – P4C – Philosophy 4 Children</u>

Key Words

Philosophy

Influence

Understanding

Opinion

Debate

Controversy

Open

Question

Listen

Rules

What is P4C and how does it work?

Philosophy for Children, or P4C, is an approach to learning and teaching which enhances your thinking and communication skills, boosts your self-esteem, and improves your ability to question things on a deeper level.

In P4C, a stimulus, such as a story, video clip or image, is shared with a you. You are encouraged by your teacher to come up with the kind of big, engaging philosophical questions about the stimulus which are at the heart of P4C.

Philosophical questions are those that are open to examination, further questioning and enquiry. They are contestable – that is, there is

more than one valid point of view, the question is important, and it is a shared issue or concern.

Through a vote, you then choose the question they would most like to discuss.

Examples of Open Questions

- Is it ever OK to lie?
- What makes you you?
- Do we have to respect everyone?
- · Can good people do bad things?
- Do we all have the same rights?

Year 8 - Nutrients

— 75°C

-- -18°C

STORAGE

Food safety and hygiene is about protecting people and reducing the risk of food poisoning.



https://www.youtube.com/watch?v=zE0ypKtFuWQ

Carbohydrates are macronutrients.

The main function is to **provide** energy to the body.

2 main types = **starchy** (complex) and **sugary** (simple)

Complex = long lasting energy; **Simple** = short burst of energy

Proteins are *macro*nutrients.

They're used by the body for growth, repair and maintenance of muscle and tissue.

2 main types = **HBV** (high biological value) and LBV (low biological value)

HBV = contain all 9 essential amino acids;

LBV = contain some but

not all 9 essential amino acids

https://www.youtube.com/watch?v=61Lelea02ao https://www.youtube.com/watch?v=KSKPgaSGSYA

https://www.voutube.com/watch?v=PBvM12M1n3A https://www.youtube.com/watch?v=Xto8ZqCYDvY

Key vocabulary

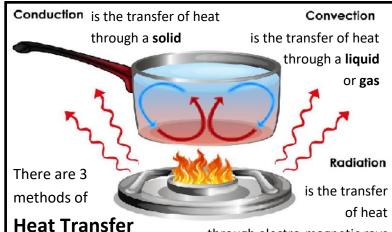
safety / hygiene nutrients / sources / function carbohydrates / protein / amino acids HBV / LBV / protein complementation fibre / vitamins / minerals / fat / water deficiency / excess convection / conduction / radiation



and minerals are *micro*nutrients. They have a wide range of health benefits.

https://www.voutube.com/watch?v=K5pW7rpMTQw https://www.youtube.com/watch?v=kteZneJm1El https://www.youtube.com/watch?v=1u5HOURg7kQ

through electro-magnetic rays



https://www.youtube.com/watch?v=vg5k6t6uZwE

The Eatwell Guide shows the types and proportions of foods people need for a healthy and well-balanced diet.



https://www.youtube.com/watch?v=7MIE4G8ntss https://www.nhs.uk/live-well/eat-well/the-eatwell-guide/ https://www.youtube.com/watch?v=8aWqZd9RScQ

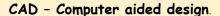
Year 8 Resistant Materials Knowledge Organiser

Design for maintenance and repair

Advantages of repairable products and those that can be maintained:

Can be updated, to be more efficient, lengthening their useful life time. It is cheaper to repair than replace an entire product. Repairable products are environmentally friendly

A standard component is a pre-manufactured product that is used in the manufacturing of another product. As well as saving time, using a standard component can ensure a consistent product is produced. Users can remove standard fittings to help them repair or replace parts . Nuts , bolts , washers , zips , buttons are just some examples.

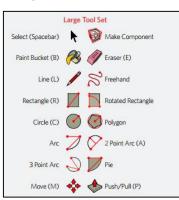


2DDesign , Google Sketch-up Advantages

- Easy to make changes
- Show clients 3D models of your idea
- Files can be emailed across the world instantly
- You can test your idea in a virtual environment Disadvantages
- Software can be expensive
- You need training



CAD Tools



Computer aided manufacturing machines

Laser cutter

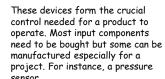


3D printer



Accurate , can be used to make multiple copies

Input Components



Light dependent resistors (LDRs) are a type of variable resistor whose resistance increases with light.

Switches are simple input devices which allow electrical current to flow when pushed.

Motion sensors use infrared to detect changes in the environment to activate the system.

Thermistors are a type of variable resistor whose resistance changes when it becomes hot or cold.

Solder



Soldering ____

Side cutters



Tenon saw

Process Components



Output Components

These devices are used in combinations to turn the signal from the input component into the signal to the output component. Careful designing and a good knowledge of the way circuits are designed is crucial

Resistors limit current flow in an electronic circuit and have to be placed before some components to prevent damage.

Capacitors store charge in circuits and release charge when the circuit is off.

Integrated circuits (ICs) are manufactured for many different uses and functions. A tiny circuit is encased in silicone (a semiconductor material). Although they look complex, they follow the same logic as simple circuits. Because of their reduced size, smaller products can be achieved as more technology can be made to fit into smaller spaces.

Microcontrollers are tiny integrated circuits used widely in automatically controlled devices such as engine management in cars. These can be combined with drivers to control devices such as motors. Raspberry Pi and BBC micro:bit computers are examples used in schools.

Printed circuit board . Electronically connect components

using copper tracks.

A hazard is any source of potential damage, harm or risk.

A precaution is a measure taken to prevent something dangerous or harmful happening

The output is the end function of the product. In most cases, the output can be classed as light, sound, motion or a combination of two or more functions.

Light emitting diode (LED) come in different colours and levels of brightness. They have replaced the filament bulb in many everyday uses.

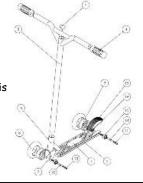
Light bulbs are not as widely used because of LEDs in an everyday context but minilight bulbs do not require soldering, so can still be useful.

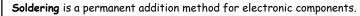
Buzzers use electric current to create their own sound. Used in alarm systems.

Speakers allow a sound signal from a circuit to be amplified.

Motors are magnetic devices and are behind nearly all moving parts in electronic systems.







Short-circuit In a circuit, often as the result of a solder bridge, electricity will flow in the shortest path back to the battery.

Insulator A material that does not conduct electricity and can therefore be used as a coating to components, circuit boards and wires. PVC is a example.

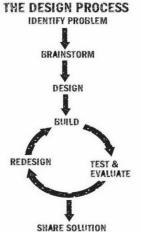
 $\textbf{\textit{Conducto}} \ \textit{A} \ \textit{material which allows heat or electricity to pass through it easily. \textit{Copper is an example} \ .$



Design movement: A design movement is a group of designers with a common cause view or idea who then produce designs based upon their views or ideas. Memphis Design movement, Art Deco, modernism and Art Nouveau are examples from the 20th century.



The Design Process



"Research like product analysis helps to inspire our own ideas"

"The design process involves continually evaluating and redesigning to develop ideas"



Product Analysis

Primary and secondary data

Primary sources of information are gathered by the designer and used to help improve their designs.

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

User centred design.

User centred design consider who the target market will be and thinks about their needs and wants. Examples of this could be:

- designing fastenings for small children to use
- creating products for the partially sighted, which might include bright colours or large buttons
- redesigning products using the ergonomic data of a wheelchair user

Year 8 - Textiles Design and Technology

Fabric Construction Woven Knitted Non-Woven (a) (b) (c)

Strong, non stretch, different weaves: plain, twill, satin. Use for shirts, jeans, bed linen Cheaper to produce, stretch due to loop structure, can snag and cause runs. Used for sportswear, tights and jumpers Very cheap, not strong (unless bonded), can be easily torn. Use for disposable products e.g. jay clothes, disposable hats, felt.

Cotton V's Polyester

Material	Source of origin	Sustainable?
Cotton		More sustainable than Polyester, because the plants can continually grow. Uses a large amount of water to grow, clean and process the fibres. Pesticides and dyes can be poisonous and cause pollution. Organic cotton is produced more ethically.
Polyester		Made from a fossil fuel (coal/oil) so not sustainable. Can be recycled though. Each time polyester is washed microfibre are release which is polluting the oceans and getting into the eco system.

The 6Rs

Rethink	Do we make too many products? Design in a way that considers people and the environment.	X fv
Refuse	Don't use a materials or buy a product if you don't need it or if it's bad for people or the environment	
Reduce	Cut down the amount of material and energy you use as much as you can.	* 01
Reuse	Use a product to make something else with all or parts of it.	
Recycle	Reprocess a material or product and make something else.	SÎ
Repair	When a product breaks down or doesn't work properly, fix it.	

The Impact Of Fast Fashion



Textile production produces harmful emissions and other pollution from chemicals and dyes.



Poor-quality clothing leads to more textile waste. Plastic based fibers release harmful gases in landfills.



Textile production uses scarce resources. The industry uses 100 billion cubic meters of water annually — about 4% of global freshwater withdrawal.



Microplastics enter the water system when synthetic materials are washed. Ocean species consume these plastics, and so do people eating seafood.

Key Terms:

Fast Fashion—clothes that are made quickly and cheaply to meet everchanging fashion trends. Often linked to poor working conditions.



MUNI

FAIRTRADE

Sustainability — when materials or products can be made without damage to people of the environment. E.g. Organic cotton and Bamboo.

Fairtrade— trade between companies in developed countries and producers in developing countries in which fair prices are paid to the producers

Composition is the placement or arrangement of visual elements in a piece of work.

smoke

waterhole

The **Dreamtime** is the Aborigines belief of how the world and its creation began. Aboriginal culture includes ceremonies, body art, music, art and story telling.





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Aborigines are the original inhabitants of Australia.