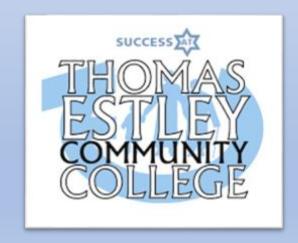
Thomas Estley Community College Year 7 Summer Term Knowledge Organiser







What are Knowledge Organisers?

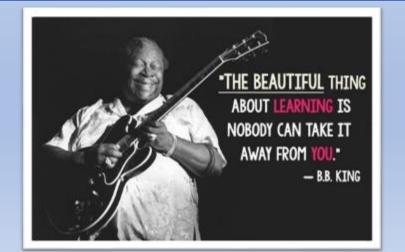
A knowledge organiser is an easy way that each subject can summarise the most important information. Each subject section will include key terms, short explanations, glossary words, diagrams etc making it clear to the student as to what is essential to learn. Each grid has an overall theme and these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

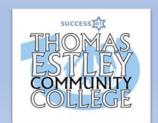
It will be the students responsibility to keep the knowledge organisers safe and refer to them over the whole academic year.

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.

Dack to front



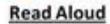
Hide and Seek

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!



Back to front

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



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.

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!

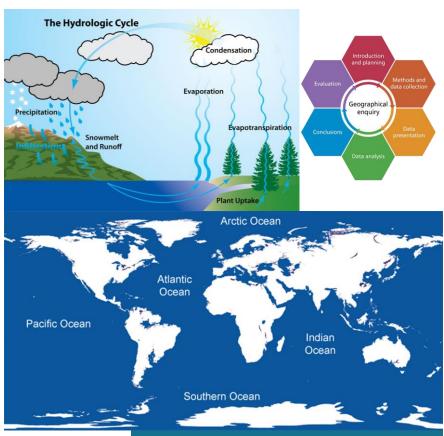
Some find they remember by simply writing the facts over and over again.

Geography Knowledge Organiser Year 7: Water World

Key Word	Definition
Water Cycle	The never ending movement of water between the ocean, atmosphere and land.
Water Footprint	The amount of fresh water used in the production or supply of the goods and services used by a particular person or group.
Drought	A prolonged period of unusually low rainfall, leading to a shortage of water.
Agriculture	Practices linked to farming e.g. growing crops.
Surplus	Having too much of something (more than you need).
Deficit	Not having enough of something.
Coral Reefs	A ridge of rock in the sea formed by the growth and deposition of coral.
Coral Bleaching	When water is too warm, corals will expel the algae living in their tissues causing the coral to turn completely white.
Ocean Acidification	Decrease in the pH of the Earth's oceans caused by the uptake of carbon dioxide from the atmosphere.
Ocean Currents	The continuous, predictable, directional movement of seawater driven by gravity, wind and water density.
Fieldwork	Undertaking tasks outside of the classroom, this may be local or in another country!

Useful websites...

https://www.bbc.co.uk/bitesize/guides/zgx382p/revision/1



CORALBLEACHING

REDESIGN HEA

REFUSE

REDUCE

REPAI

DELICE

RECYCLE

DISPOSAL









Wired and Wireless data transmission

A computer network can be either wired or wireless.

- Wired networks send data along cables.
- Wireless networks send data through the air using radio waves.

Bandwidth—Bandwidth is the amount of data that can be moved from one point to another in a given time. Higher bandwidth = more data per second



Bandwidth is measured in bits per second

A bit is the smallest unit of data
Data transfer rates are now so good
that bandwidth is usually measured in
Megabits per second (Mbps)
1Mb—1 million bits

A **network** is where devices are connected together usually by cable or WiFi. This could be a few computers in a room, many computers in a building or lots of computers across the world.



Internet services

There are a range of services provided by the internet. These include:

- World Wide Web
- Email
- Online gaming
- Instant messaging
- Voice over IP (VoIP) audio calls
- Internet of Things (IoT)
- Media streaming (e.g. watching Netflix online)

The rules for each service are different. As a result, a different protocol is used.

HTTP—HyperText Transfer Protocol—used so that data can be understood when sent between web browsers and servers.

HTTPS—is the secure version of HTTP where data sent is encrypted.

	Key Words						
bandwidth	Amount of data that can be moved from one point to another in a given time.						
buffering	Data arriving slower that it is being processed						
internet	A worldwide network of computers						
Internet of Things (IoT)	Takes everyday 'things' and connects them to the Internet eg smart light bulb, fridge, heating etc						
IP address	A unique address for every device on the internet						
packet	Networks send/receive messages in units called packets						
protocol	All methods of communication need rules in place in order to pass on the message successfully. These sets of rules are called 'protocols'						
Search engine	A website that allows user to look up information on WWW e.g. Bing, Google etc						
Web browser	Piece of software(code) used to view information on the Internet						
www	Part of the Internet that contains websites and webpages. NOT the same as the Internet.						

Network Hardware—physical equipment required to set up a network

Hub—Connects a number of computers together. Ports allow cables to be plugged in from each connected computer.

Router—Used to connect two separate networks together across the internet

Sever—A powerful computer which provides services to a network

Cable—Used to connect different devices together. They are often made up of a number of wires.

Computing - Programming Part 1

A computer will take inputs (this might be automatic or via human input), process the input and then produce the output. For example when you use a keyboard and mouse, the mouse is used to input data into the computer to be processed and the output is visible on the computer monitor.

Variables are used to store data for use in a program. They can store lots of different types of data such as names and scores.

So set variable score to equal 0

If I score a goal then increase variable by 1

Operators

Comparison operators allow us to compare using =, <, >,

Logical operators use AND, OR, NOT

A **selection** statement in programming allows a computer to **evaluate** an **expression** to **'true'** or **'false'** and then perform an action depending on the outcome.

If 'character has a sword": is true:

Remove from game

Else:

Keep in the game

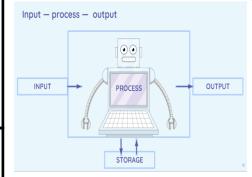


Debugging is the process of finding an error in your code and taking steps to fix the problem.

Count controlled iteration will execute the

commands a set number of times Example: "perform 200 star jumps"

Condition-controlled iteration will execute the commands until the condition you set is no longer being met Example: "perform star jumps until 3pm"



Scratch is a block based programming language. We can use predefined code in blocks to create algorithms.

	Key Words
abstraction	Identify the important aspects to start with
algorithm	Precise sequence of instructions
Computational thinking	Solving problems with or without a computer
debugging	Looking at where a program might have errors or can be improved
blocks	Scratch bricks that we can use to code algorithms
decomposition	Breaking down a problem into smaller parts
execute	A computer precisely runs through the instructions
iteration	Doing the same thing more than once
selection	Making choices (eg if else)
sequence	Running instructions in order
variable	Data being stored by the computer

We use algorithms in every day life, for example, an algorithm to get to school, to make a cup of tea, to make a pizza, to order a takeaway. These are just precise sequences of instructions.

Sequence, **selection** and **iteration** are all processes. In order for computers to perform tasks there is more that is needed. For example a computer will take an **input** (this might be automatic or via human input) which the computer will then **process** and the **output** will be visible on the computer monitor.

Variation

- The differences in characteristics of living things is known as variation
- · There is a large amount of variation between different species, but within species many more characteristics are shared
- . Even though two organisms may look the same, they will always have variation between them

Inherited variation

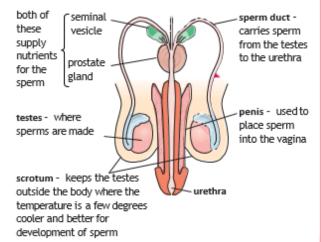
Environmental variation

- · Is anything that comes directly from your parents, anything that you inherit
- Examples can include lobe less or lobed ear lobes and eye colour
- · Is any type of variation that is caused by your
- Factors that can cause environmental variation include diet, education and lifestyle
- Environmental factors can also impact inherited factors, for example a poor diet can affect height or your exposure to the sun can affect
- Characteristics which are inherited and not affected by environmental variation include natural eye colour, blood group and genetic diseases

Reproductive systems

fallopian tube (oviduct) - where the egg travels to the uterus and may be fertilised



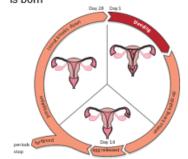


Adolescence

- · Adolescence is the process in which a child changes into an adult, it involves both physical and emotional changes
- The physical changes alone in this time are known as puberty, these are caused by sex hormones

The menstrual cycle

- · The menstrual cycle is the process in which an egg is released from an ovary and leaves through the vagina
- Day 1: blood from the uterus lining leaves through the vagina, which is known as a period
- Day 5: the bleeding stops and the uterus lining starts to re-grow
- Day 14: an egg is released from one of the ovaries during ovulation
- If the egg is fertilised than the menstrualcycle stops until the baby is born



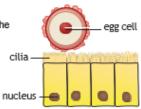
Fertilisation, implantation and gestation

Egg cells and sperm cells are also called gametes, and each contains half the genetic information needed to form a complete organism.

Egg cells

An egg is released by the ovaries every month

The egg cell is moved along the oviduct towards the uterus by cilia

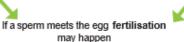


Sperm cells

Sperm cells are produced in the testicles/testes

Sperm are mixed with nutrients and fluid from the glands to form semen

During sexual intercourse a man will release semen into the vagina (eiaculation)



The fertilised egg may then implant in the uterus lining and form an embryo (ball of cells)

During gestation the developing fetus needs nutrients from the mother, these are passed through the placenta which is connected to the fetus by the umbilical cord

3 mm long

Just a dot

1 week - cells beginning to specialise

4 weeks - spine and brain

forming, heart beating

3 cm long

9 weeks – tiny movements, lips and cheeks sense touch, eves and ears forming

 Nutrients are passed from the mother to the baby and waste products are passed

back from the baby to the mother

7 cm long

12 weeks - fetus uses its muscles to kick, suck, swallow, and practise breathing

· The baby is protected from bumps to the mother by the amniotic

sac which acts as a shock absorber

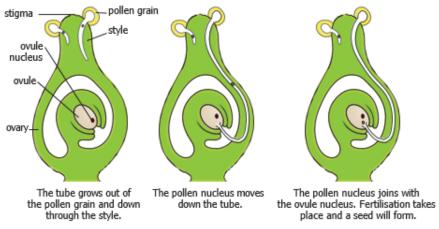
Reproduction **Knowledge organiser** page 1



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



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

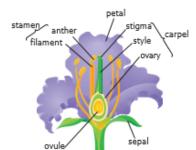
- · Water to allow the seed to swell and grow and for the embryo tostart growing
- Oxygen for that the cell can start respiring to release energy forgermination
- · Warmth to allow the chemical reactions to start to occur within the seed

Parts of a flower

Stamen

Male part of the flower

- The anther produces pollen
- The filament holds up the anther



Carpel

Female part of the flower

- The stigma is sticky to catch grains of pollen
- The style holds up the stigma
- The ovary contains ovules

Adaptations

- Adaptations are characteristics which organisms have developed to best survive in their surroundings
- · Organisms with the best suited adaptations can breed and pass these on
- Those who are not best adapted will die out and not be able to pass on their genes



Reproduction



Knowledge organiser – page 2



Make sure you can write definitions for these key terms.

Adaptation Adolescence Amniotic sac Anther Carpel Cervix Cilia Egg cell Embryo Environmental variation Fertilisation Fetus Gamete Germination Gestation Implantation Inherited variation Menstrual cycle Ovary Ovule Oviduct Ovulation Penis Petal Period Placenta Pollen Pollination Puberty Reproductive system Scrotum Semen Seed Sepal Sex hormones Species Sperm cell Sperm duct Stamen Style Testicles Umbilical cord Urethra Uterus Vagina Variation







Chemical reactions

- A **chemical** reaction is a change in which atoms are rearranged to make new substances
- A **reversible** reaction is one where the products can react to get back the substances which you started with, most chemical reactions are not reversible
- You can look for signs that a chemical reaction has taken place such as flames, smells, heat change, a loud bang or gentle fizz

Acids and alkalis

- Acids and alkalis are the chemical opposites of one another
- Both acids and alkalis can be corrosive and irritants

To see whether a substance is an acid or an alkali, we can use an **indicator**. Indicators show how acidic or how alkaline a solution is by showing its position on the **pH scale**, one example of this is **universal indicator**

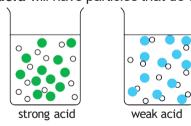
- If the solution has a pH value of 1–6 it is acidic
- If the solution has a pH value of 8–14 it is alkaline
- If the solution has a pH value of 7 it is known as **neutral**

Another example of an indicator is red & blue litmus paper

Strond acid, hydrochloric acid, nitric acid, hydroxide acid, hydroxide acid, hydroxide acid, hydroxide potassium hydroxide potassium hydroxide acid, hydroxide potassium hydroxide potassium hydroxide acid, h

Acid strength

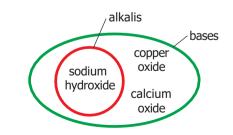
- The strength of an acid depends on how much of the acid has broken apart when it has dissolved in water
- Hydrogen chloride dissolves in water to form hydrochloric acid, this is a **strong acid** as all of the particles split up
- A weak acid will have particles that do not all split up



- The concentration of the acid is the amount of acid which has dissolved in 1 litre of water
- The more concentrated the acid, the lower the pH

Neutralisation

- Neutralisation reactions are any reaction in which acids react with a base to cancel out the effect of the acid
- These reactions form a neutral solution with a pH of seven
- A base is any substance which neutralises an acid
- An alkali is a base which has been dissolved in water



Salts

Salts are substances which are formed when an acid reacts with a metal or metal compound Different acids form different types of

different types of salts:

- Hydrochloric acids form chloride
- Sulphuric acids form sulphates
- Nitric acids form nitrates

Metal reactions and gas tests

When a metal reacts with an acid it will produce a salt and hydrogen gas, the fizzing that you see is the hydrogen gas being given off

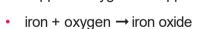
metal + acid → salt + hydrogen magnesium + hydrochloric acid → magnesium chloride + hydrogen

As most gases are colourless and odourless, it is sometimes necessary to test a gas to see what it is. This helps you to understand what has happened during a reaction.

- To test to see if the gas is hydrogen: put a lit spill in the end of the test tube containing the gas. If there is a squeaky pop sound then the gas is hydrogen.
- The sound is caused by the hydrogen igniting and creating a miniature explosion.
- To test to see if the gas is oxygen: Blow out a lit spill so that the end glows. Put
 the glowing spill into the test tube containing the gas. If the spill reignites then the
 gas is oxygen
- To test to see if the gas is carbon dioxide: Put a lit spill into the test tube containing the gas. If the spill is extinguished then the gas could be carbon dioxide.
- To confirm the gas should be mixed with lime water (*not from the fruit!*). If the lime water turns a cloudy white then the gas is carbon dioxide

Combustion

- When substances burn in oxygen a chemical reaction called combustion takes place.
 - Combustion can only take place when there is a fuel to burn, heat to start the reaction and plenty of oxygen. The product of the reaction is an oxide.
 carbon + oxygen → carbon dioxide
 copper + oxygen → copper oxide



magnesium + oxygen → magnesium oxide



(

Make sure you can write definitions for these key terms.

chemical reaction concentration corrosive displacement hydroxide indicator irritant neutral concentrated acid acidic chemical alkali alkaline base pH scale reversible reactivity strong acid universal indicator weak acid combustion lime water oxide oxidation neutralisation





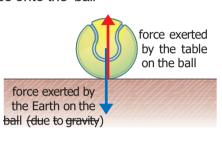




What is a force?

- A force can be a push or a pull
- A force is measured in **Newtons** (N)
- We measure forces with a **newton meter**
- Forces explain why objects will move, change direction and change speed
- Forces always act in pairs, we call these interaction pairs

e.g. the tennis ball exerts a downward force of **weight** onto the table, the table exerts an equal and opposite reaction force onto the ball



Types of forces

- Contact forces act when two objects are physically touching
- Air resistance and friction are examples of contact forces
- Non-contact forces act when two objects are physically separated (not touching)
- Examples of non-contact forces include gravitational force and magnetic forces
- We call the region where an object experiences a noncontact force a field, examples of these include gravitational fields and magnetic fields

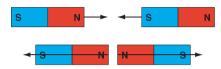
Gravity

- Gravity is a non-contact force that acts between two objects
- Gravitational force pulls you back to Earth when you jump
- The size of the gravitational force depends on the mass of the two objects and how far apart they are
- Weight is the downward force caused by gravity acting upon the mass of an object, it is measured in Newtons (N)
- Mass is the amount of matter within an object, whereas weight is the downward force of the object, we measure mass in kilograms
- We calculate weight with the equation:

 The value of the gravitational field strength can vary, so although a person's mass would be the same on different planets, their weight would not be

Magnets

- A magnet has two poles, a north and a south pole
- North poles attract south poles
- South poles attract north poles
- · South poles repel south poles
- North poles repel north poles



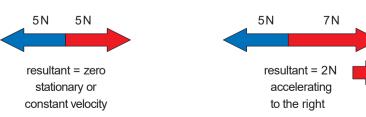
- Magnetic materials will experience a magnetic force when placed near a magnet, this is a type of non-contact force as the materials do not have to touch for the force to be apparent
- · The three magnetic metals are iron, nickel and cobalt

Balanced and unbalanced forces

- When forces acting on an object are the same size, but acting in different directions, we say that they are balanced
- When forces are balanced, the object is either not moving (stationary) or moving at a constant speed
- When the two forces acting on an object are not the same size, we say that the forces are unbalanced
- When forces are unbalanced, the object will either be in

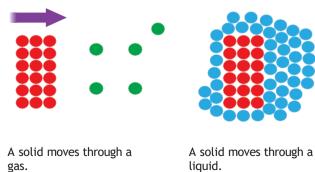
acceleration or deceleration

 The resultant force is the difference between the two unbalanced forces



Friction and drag

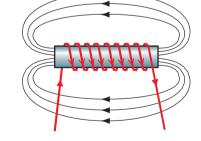
- Friction is a force which will slow down a moving object due to two surfaces rubbing on one another
- The greater the friction, the faster an object will slow down, or the greater the force it will need to overcome the force of friction. For example, it is easier to push a block on ice than on concrete, as the ice is smoother and causes less friction
- When an object is moving through a fluid, either liquid or gas, the force which slows it down is known as drag
- The fluid particles will collide with the moving object and slow it down, meaning that more force is needed to overcome this
- Both drag and friction are contact forces as the two surfaces in friction, and the object and fluid particles in drag, come into contact with one another
- Both drag and friction are forces so they are measured in **Newtons** (N)



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

iron core with current on



- 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



Make sure you can write definitions for these key terms.

<u>¿Tienes mascotas?</u> (Do you have pets?)

Tengo I have	un caballo	A horse		pequeño/a	small
	un conejo	A rabbit		grande	big
No tengo	un gato	A cat	es		
I dont have	un hámster	A hamster	It is	azul	blue
Tiene	un loro	A parrot		blanco/a	white
He/she has	un pájaro	A bird		naranja	orange
	un perro	A dog		rojo/a	red
Me gustaría tener I would like to have	un pez	A fish		verde	green
	un ratón	A mouse	sería	aburrido/a	boring
No me gustaría tener I wouldn't like to have	una araña	A spider	It would be	bonito/a	pretty
	una cobaya	A guinea pig		divertido/a	fun
Antes tenía Before I had	una rata	A rat		feo/a	ugly
	una serpiente	A snake		gracioso/a	funny
	una tortuga	A tortoise	era It was	ruidoso/a	noisy

Year 7 History - Were Medieval Kings able to do whatever they wanted?

1164

1170

1198

1215

1216

1258

1258

1264

1272

Todmorden High School

region. This became known as the House of

Commons.



Key events Key people **Key terms** Churches were important as meeting places – most Henry II (reigned 1154-1189) The Church. Means all of Christianity in England, not just one people went to Church at least once a week. Monarchs: King of England from 1154 until his death in 1189. He building. This means the Catholic Church in Rome in In 1066, there were around 1000 monks. By 1300. believed the Church had too much power, so challenged the Medieval Period. there were over 12,000 monks in England. The this. Responsible for the death of Thomas Becket. Ideas about Heaven/Hell were very important to Medieval Catholicism A type of Christianity led by the Pope in Rome. people. People lived their lives following the Church's King John (reigned 1199-1216) Church rules so they'd go to heaven when they died. The second son of Henry II. John was very unpopular. In Excommunicate The Pope officially exclude (someone) from Hospitals were run by priests not doctors – people 1215, John was made to sign the Magna Carta by his participation in the sacraments and services of the used prayer to cure illness not medicine. This barons - which limited his power. Christian Church included Black Death, where people whipped themselves to say sorry to God. Henry III (reigned 1216-1272) Flagellation. The act of whipping oneself to say sorry to God. The son of King John. He tried to break the terms of Henry II tried to limit to power of the Church by Magna Carta, which led to a rebellion. He was forced to passing the Constitutions of Clarendon, Archbishop A document signed by King John which sets out in law Magna Carta agree to the setting up of a Parliament. Thomas Becket was very unhappy about this, leading the power of the English king. Henry II to the two men clashing. challenged Due to this, Henry II supposedly organised for Becket the power A building where monks live and work together. Monasteries to be killed. Churchmen and of the **Thomas Becket** Henry VIII destroyed these during the Dissolution. Henry was punished by the Church for this. He had to **Barons** Became Archbishop of Canterbury in 1162. Before this, Church. give up on the Constitutions of Clarendon and was was good friends with Henry II, however the two men whipped by monks. Thomas Becket was canonized Martyr. Someone who dies standing up for their religion. clashed over their different ideas about the role of the and became a saint. They're celebrated by their religion. Church, He was killed in 1170. King John was very unpopular in England. He charged **Parliament** An elected group who a monarch consults in the Simon de Montfort high taxes, offended his barons and tried to interfere running of the country. Known also as 'The Father of Parliament'. One of the in religious matters. King John leading barons in England. Captured Henry III at Battle of John was excommunicated by the Pope which A religious leader in charge of performing religious and Magna Lewes and called a Parliament in 1265 stopped all religious services in England for 7 years. ceremonies in churches. Carta His Baron's made John sign Magna Carta (the Great Charter) setting out the rights that they had. **₹**₩ The first Henry III tries to John's son; Henry III, also had arguments with his Parliament is Signing of Murder of break terms of called by Simon baron's. Henry tried to raise taxes to fight in the Magna Magna Carta Thomas **Timeline** de Montfort Carta Becket *1*7777 Pope's Holy Wars, often without asking his barons. Henry III, One of his barons, Simon de Montfort, forced Henry Simon de to sign the Provisions of Oxford. Henry II brings in John dies and John becomes Montfort Provisions of Constitutions of his son Henry When Henry broke the Provisions of Oxford, de Death of King of Oxford signed Clarendon becomes king and **England** Henry III Montfort led a rebellion against the king. Henry was **Parliament** captured and Simon de Montfort called England's first parliament consisting of 2 commoners from each

UNIT 6 (Part 2/2) Describing my family and saying why I like/dislike them

Dans ma famille j'ai [in my family I have] Dans ma famille il y a quatre personnes	mon grand-père, Claude [my grandfather Claude] mon père, Georges [my father Georges] mon oncle, Paul [my uncle Paul] mon petit/grand frère, Olivier [my little/big brother	J'aime "mon " car il est [I like my because he is] "Mon père est très/assez [My dad is very/quite]	amusant [fun] beau [handsome] fort [strong] généreux [generous] grand [tall] gros [fat] honnête [honest] intelligent [clever] méchant [mean]
personnes [there are four persons in my family]	olivier] mon cousin, Tristan [my -boy- cousin Tristan]	"Mon père" est aussi un peu [My dad is also a bit]	mince [slim] petit [short] sympa [nice/kind] timide [shy] têtu [stubborn]
Je m'entends bien avec [I get along well with]	ma grand-mère, Thérèse [my grandmother Thérèse] ma mère, Eliane [my mother Eliane] ma tante, Françoise [my aunt Françoise]	J'aime "ma" car elle est [I like my because she is]	amusante [fun] belle [pretty] forte [strong] généreuse [generous] grande [tall] grosse [fat] honnête [honest] intelligente [clever]
Je m'entends mal avec [I get along badly with]	ma petite/grande sœur, Léa [my little/big sister Léa] ma cousine, Claire [my -girl- cousin Claire]	"Ma mère" est très/assez [My mum is very/quite] "Ma mère" est aussi un peu [My mum is also a bit]	méchante [mean] mince [slim] petite [short] sympa [nice/kind] timide [shy] têtue [stubborn]

UNIT 7 Talking about pets

	un canard [a duck]		petit [small]
A la maison, j'ai Chez moi, j'ai [At home I have]	un chat [a cat]		grand [big]
[11 nome 1 nave]	un cheval [a horse]	qui s'appelle	jaune [yellow]
	un chien [a dog]	Bronco	bleu [blue] blanc [white]
Je n'ai pas <u>de</u>	un cochon d'Inde	[that is called	orange [orange]
[I don't have]	[a guinea pig]	Bronco]	noir [black]
	un hamster [a hamster]		rouge [red] vert [green]
Mon ami Denis	un lapin [a rabbit]	il est	hanhant (hanina)
a [My friend Denis has]	un oiseau [a bird]	[he/it is]	<pre>barbant [boring] joli [pretty]</pre>
	un perroquet [a parrot]		amusant [fun]
	un poisson [a fish]		moche [ugly] rigolo [funny]
	un serpent [a snake]		intelligent [clever]
Je voudrais avoir [I would like to have]	una avaignée (a guiden)		petite [small] grande [big]
nuvej	une araignée [a spider]		jaune [yellow]
nuvej	une araignee [a spiaer]	qui s'appelle	jaune [yellow] bleue [blue]
navej	une araignee [a spiaer]	qui s'appelle Lola	
Je ne voudrais	une perruche [a budgie]		bleue [blue]
Je ne voudrais pas avoir <u>de</u>		Lola	bleue [blue] blanche [white]
Je ne voudrais pas avoir <u>de</u> [I wouldn't like		Lola [that is called	bleue [blue] blanche [white] orange [orange]
Je ne voudrais pas avoir <u>de</u>		Lola [that is called	bleue [blue] blanche [white] orange [orange] noire [black]
Je ne voudrais pas avoir <u>de</u> [I wouldn't like	une perruche [a budgie]	Lola [that is called	bleue [blue] blanche [white] orange [orange] noire [black] rouge [red] verte [green]
Je ne voudrais pas avoir <u>de</u> [I wouldn't like	une perruche [a budgie]	Lola [that is called Lola]	bleue [blue] blanche [white] orange [orange] noire [black] rouge [red] verte [green] barbante [boring]
Je ne voudrais pas avoir <u>de</u> [I wouldn't like	une perruche [a budgie]	Lola [that is called Lola] elle est	bleue [blue] blanche [white] orange [orange] noire [black] rouge [red] verte [green] barbante [boring] jolie [pretty]
Je ne voudrais pas avoir <u>de</u> [I wouldn't like	une perruche [a budgie]	Lola [that is called Lola] elle est	bleue [blue] blanche [white] orange [orange] noire [black] rouge [red] verte [green] barbante [boring] jolie [pretty] amusante [fun]
Je ne voudrais pas avoir <u>de</u> [I wouldn't like	une perruche [a budgie] une souris [a mouse]	Lola [that is called Lola] elle est	bleue [blue] blanche [white] orange [orange] noire [black] rouge [red] verte [green] barbante [boring] jolie [pretty] amusante [fun] moche [ugly]
Je ne voudrais pas avoir <u>de</u> [I wouldn't like	une perruche [a budgie] une souris [a mouse] une tortue	Lola [that is called Lola] elle est	bleue [blue] blanche [white] orange [orange] noire [black] rouge [red] verte [green] barbante [boring] jolie [pretty] amusante [fun]

Author's note: in the negative form in French the "un" or "une" turns into "de" Examples: - Je <u>n'</u>ai <u>pas de</u> lapin (I don't have a rabbit)

<u>Year 7 – spring term focus: Intro to Victorians</u>



Queen Victoria reigned from 1837 to 1901.

There was a strong religious following at the time – the whole country was Christian and attended church on a Sunday.

People tended to have large families in the Victorian period; Victoria had 9 children herself with the "love of her life", Albert, whom she married when she was 20 years old.

There were many issues for poorer people living in Victorian Britain: unsanitary, unclean and unhygienic housing – often overcrowded. Very low wages. No access to varied food, hence poor diet. Lack of employment laws or support for people – when old(er) they were sacked.

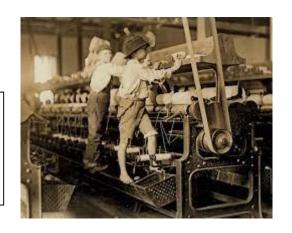


Industrial revolution
Romanticism
Poor Law
Charles Dickens
Poverty
Disparity
Child labour
Class system

Education was not free for all in the Victorian period; only boys of middle class families would attend school, and sometimes only the first born son would attend. Girls and women had far less rights and access to education and jobs in the 1800s.

Because people were so poor, and there were no laws against, young children were sent to work. This was known as child labour. Children would be used to do jobs where smaller bodies worked better than bulky adult ones – like fitting up chimneys or on a production line (so more could fit in and complete more work).







1st person narrative -

Where the book uses "I" and "me", as though the speaker is actually in the story, explaining and describing events as they happen.

Horror is a literary genre that attempts to make the reader feel fear or disgust in its audience for entertainment purposes. Horror books might include dark subject matter and may deal with transgressive topics or themes. Broad elements include monsters, apocalyptic events, and religious or folk beliefs.

The Signal Man by Charles Dickens

VOCABULARY

Tarpaulin

Waterproofed canvas

Ruminate

reflect deeply on a subject

Foreshorten

shorten lines in a drawing so as to create an illusion of depth

Manual Labour

Work done with the hands

Fits and starts

repeated bursts of activity

Coincidence

the property of two things happening at the same time a small cut

Agonised

expressing pain or agony

Rarity

something unusual -- perhaps worthy of collecting

Saturnine

bitter or scornful

Apprise

inform somebody of something

Natural Philosophy

the science of matter and energy and their interactions

furled

rolled up and secured

Condense

cause a gas or vapor to change into a liquid

Vigilant

carefully observant or attentive

Prolongation

the act of prolonging something

Agonise

suffer agony or anguish

Spectre

a ghostly appearing figure

Gesticulate

show, express, or direct through movement

Notched

notched like a saw with teeth pointing toward the apex

Transgressive

going beyond acceptable boundaries of taste, convention, or the law:





Mystery is a fiction genre where the nature of an event, usually a murder or other crime, remains mysterious until the end of the story. Often within a closed circle of suspects, each suspect is usually provided with a credible motive and a reasonable opportunity for committing the crime.



CLASSROOM RULES

- Hang your coat and blazer on pegs.
- Put your bag **UNDER** the table.
- Pencil cases ON the table.
- 4. **ALWAYS** listen carefully to instructions. 5. Wash hands after



Hessian mat stops your work sticking to the table.



Tie your hair up.

PAINT NAMES

using paint, clay etc.





CLAY LESSON

Guide rules help you to roll out the clay evenly.



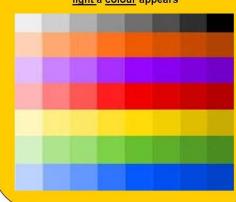
LINE

A Line is the path left by a moving point, e.g. a pencil or a brush dipped in paint. A line can take many forms, e.g. horizontal, diagonal or curved. A Line can be used to show Contours, Movements, Feelings and Expressions



TONE

Tone means the lightness or darkness of something. This could be a shade or how dark or light a colour appears



SHAPE & FORM

A shape is an area enclosed by a line. It could be just an outline or it could be shaded in.

Form is a three dimensional shape such as a sphere, cube or a cone.

Sculpture and 3D design are about creating forms





MAL ELEMENTS

TEXTURE

Texture is the surface quality of something, the way something feels or looks like it feels. There are two types of texture: Actual Texture and Visual Texture.

Actual Texture- really exists so you can feel it or touch it

created using different marks to represent actual texture.



COLOUR

There are 3 Primary Colours: RED. and BLUE.

By mixing any two Primary Colours together we get a Secondary Colour;

GREEN and PURPLE



PATTERN

A pattern is a design that is created by repeating lines, shapes, tones or colours

Patterns can be manmade, like a design on fabric, or natural, such as the markings on animal fur.

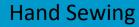


Properties Material Example Thermo Changes chromic colour with heat MATERIA Photo Changes PHOTOCHROMIC LENS chromic colour with light **SMART** Metal that Memory shape returns to alloy original shape Changes Hydrochromic colour in water

	Material	Example	Properties
IALS	Kevlar	POLICE	Very strong and resists cuts, tears.
MATER	Nomex		Heat and fire resistant
Modern MATERIALS	Micro- encapsulation	Encapsulation Technology Antibacterial to stop feet smelling	Tiny beads encapsulated with liquid e.g. antibacterial
	Phosphorescent		Glows in the dark

Year 7 Textiles - Design and Technology







Running stitch is quick and easy

Back Stitches are strong and look neat

Whip stitches are used to finish and neaten edges.

More Key words:

- **Seam** joining two separate pieces of fabric together.
- Hem fold on the edge of fabric which is sewn down making the edge look neat.
- Fray the yarn coming away at the edge of curt fabric.
- **Dying** when the fabric colour is changed by soaking in water and fabric dye.



NATURAL

Used for making jeans,

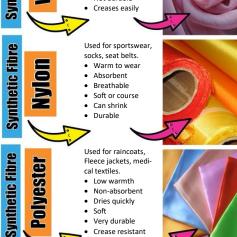
T-shirts and towels.

 Very absorbent Dries slowly

· Cool to wear

Soft

ofton



· Dries quickly Soft

· Very durable

recycled

Year 7 Resistant Materials Knowledge Organiser

Single-point perspective - This shows an object from the front in a realistic way as it gets smaller going into the distance. The front view goes back towards a vanishing point, which is a point on the horizon line that all lines meet at.

Two-point perspective - This shows an object two vanishing points.





Creating the illusion of light, tone

and texture using graphic materials.

Creating the illusion that an object is



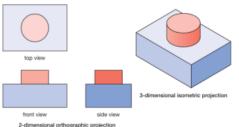
Rendering



Orthographic Projection

They are used to show an object from every angle to help manufacturers plan production. Starting with a front view of a product, construction lines show where areas join and are used to draw a side and plan (top) view, ensuring that the drawing is accurate from all angles. These drawings are to scale and must show dimensions.





Freehand sketching is the quickest way of getting your initial designs on paper before an idea is forgotten. Freehand sketches are often done without a ruler or template and instead are produced quickly and freely.

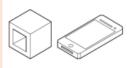


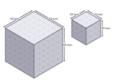
Isometric

Isometric drawings, sometimes called isometric projections, are a good way of showing measurements and how components fit together. Unlike perspective drawings, they don't get smaller as the lines go into the distance.

There are three main rules to isometric drawing:

- •horizontal edges are drawn at 30 degrees
- vertical edges are drawn as vertical lines
- parallel edges appear as parallel lines





Personal protective equipment (PPE)

- Apron
- Leather gloves
- Goggles
- Sturdy shoes

Surface treatments and finishes

Used to improve the appearance and protect the material. Polish, varnish, paint, wax and stain are examples.

Wasting tools

Coping saw - used to cut curved lines Junior hacksaw - used for sawing plastic and metal

Hand file – used to shape materials

Rasp – used to shape wood

Pillar drill - used to drill holes

Needle file – used to shape materials, remove material is

Disc sander: used to waste material

Marking and measuring tools

Steel rule Bradawl Centre punch Marking knife Try square



Metals and alloys

Metals are found naturally and are mined from the earth. Metals used in products are extracted from the natural ore using large heat furnaces.

Ferrous metals

Ferrous metals contain iron and are magnetic. They are prone to rust.

Non-ferrous metals do not contain iron and are not magnetic. They do not rust.

Alloys are mixtures of metal with an element to improve its properties or aesthetic. For example brass is a mixture of copper and zinc. Alloys can also be classified as ferrous or non-ferrous.

Timbers Wood comes from trees that are felled. There a are three main groups of wood:

Hardwoods - take longer to grow, are not easily sourced and are expensive to buy. Oak, beech and mahogany are hardwoods.

Softwoods - They are faster growing than hardwoods, making them cheaper to buy, and are considered a sustainable material. Pine is a softwood

Manufactured board - Manufactured boards are usually made from timber waste and adhesive. To make them more aesthetically pleasing they are often veneered. They are cheap to buy.

Moulds and casting – used to make complex shapes





Computer aided design (CAD) now has the capability to design new products in 3D, visualise them in a variety of materials and send images around the world for collaboration and consultation.



By using computer aided manufacture (CAM), designs can be sent to CAM machines such as laser cutters, 3D printers and milling machines.



KS3 Athletics

Using the tables, keep a record of what level you are at for each event you try in PE. Put your own scores in the appropriate box on the left

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STAGE PROGRESSIONS	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6	Stage 7	Stage 8	Stage 9
SPRINTS	1 Star	2 Star	3 Star	Bronze	Silver	Gold	Platinum	Elite	Podium
50m Standards	14.8s	12.2s	10.6s	9.9s	9.2s	8.6s	8.1s	7.7s	7.3s
75m Standards	21.0s	17.3s	15.3s	13.8s	12.8s	12.1s	11.5s	11.0s	10.5s
100m Standards	23.0s	19.0s	17.0s	15.5s	15.0s	14.6s	14.2s	13.9s	13.7s
200m Standards	-	-	-	31.7s	30.8s	30.5s	29.7s	29.2s	28.5s
300m Standards	-	-	-	55.0s	53.5s	52.0s	50.0s	48.5s	46.0s
HURDLES	1 Star	2 Star	3 Star	Bronze	Silver	Gold	Platinum	Elite	Podium
60m Standards	25.0s	19.3s	16.0s	14.0s	12.5s	11.5s	11.0s	10.5s	10.1s
70m Standards	24.0s	21.0s	18.9s	17.3s	15.9s	14.6s	13.7s	13.1s	12.7s
75m Standards	23.0s	21.0s	18.5s	17.0s	16.0s	15.0s	14.0s	13.7s	13.4s
80m Standards	-	-	-	-	-	15.0s	14.2s	13.9s	13.6s
ENDURANCE	1 Star	2 Star	3 Star	Bronze	Silver	Gold	Platinum	Elite	Podium
400m Standards	3m 20s	2m 30s	2m 10s	1m 55s	1m 40s	1m 25s	1m 15s	1m 10s	1m 05s
600m Standards	6m 00s	4m 30s	3m 30s	3m 00s	2m 40s	2m 30s	2m 20s	2m 10s	2m 00s
800m Standards	5m 00s	4m 45s	4m 30s	4m 10s	3m 45s	3m 20s	2m 55s	2m 45s	2m 35s
1500m Standards	7m 20s	7m 00s	6m 44s	6m 30s	6m 17s	6m 06s	5m 55s	5m 42s	5m 24s
JUMPS	1 Star	2 Star	3 Star	Bronze	Silver	Gold	Platinum	Elite	Podium
Standing Long Jump	0.35m	0.90m	1.35m	1.55m	1.70m	1.90m	2.20m	2.40m	2.60m
Long Jump	1.00m	1.80m	2.30m	2.80m	3.10m	3.40m	3.70m	4.00m	4.30m
Standing Triple Jump	1.00m	2.40m	3.60m	4.40m	4.80m	5.20m	-	-	-
High Jump	0.20m	0.50m	0.75m	0.90m	1.00m	1.10m	1.20m	1.28m	1.36m
THROWS	1 Star	2 Star	3 Star	Bronze	Silver	Gold	Platinum	Elite	Podium
Shot Put	1.00m	2.00m	3.00m	4.25m	5.25m	6.00m	6.50m	7.00m	8.00m
Javelin	1.00m	5.00m	7.00m	9.00m	12.00m	15.00m	18.00m	21.00m	24.00m
Discus	1.00m	3.00m	5.00m	7.00m	9.00m	13.00m	17.00m	19.00m	21.00m

Boys Results

STAGE PROGRESSIONS	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6	Stage 7	Stage 8	Stage 9
SPRINTS	1 Star	2 Star	3 Star	Bronze	Silver	Gold	Platinum	Elite	Podium
50m Standards	14.8s	12.0s	10.3s	9.6s	8.9s	8.3s	7.8s	7.4s	7.0s
75m Standards	21.0s	17.0s	15.0s	13.5s	12.5s	11.5s	10.7s	10.0s	9.5s
100m Standards	23.0s	18.7s	16.7s	14.6s	14.2s	13.8s	13.4s	13.0s	12.7s
200m Standards	-	-	-	30.3s	29.3s	28.8s	27.6s	27.0s	26.0s
300m Standards	-	-	-	56.5s	54.0s	51.5s	48.5s	45.0s	42.5s
HURDLES	1 Star	2 Star	3 Star	Bronze	Silver	Gold	Platinum	Elite	Podium
60m Standards	25.0s	19.0s	15.5s	13.5s	12.0s	11.0s	10.5s	10.1s	9.7s
70m Standards	24.0s	20.4s	17.3s	15.8s	14.5s	13.6s	13.0s	12.5s	12.2s
75m Standards	23.0s	21.0s	18.0s	16.5s	15.3s	14.5s	13.8s	13.5s	13.25
80m Standards	-	-	-	-	-	15.2s	14.4s	14.0s	13.4s
ENDURANCE	1 Star	2 Star	3 Star	Bronze	Silver	Gold	Platinum	Elite	Podium
400m Standards	3m 20s	2m 30s	2m 05s	1m 45s	1m 35s	1m 20s	1m 10s	1m 05s	1m 00s
600m Standards	6m 00s	4m 30s	3m 20s	2m 50s	2m 30s	2m 15s	2m 05s	2m 00s	1m 50s
800m Standards	4m 00s	3m 40s	3m 20s	3m 00s	2m 50s	2m 41s	2m 33s	2m 27s	2m 20s
1500m Standards	6m 20s	6m 05s	5m 50s	5m 38s	5m 28s	5m 19s	5m 10s	4m 59s	4m 46s
JUMPS	1 Star	2 Star	3 Star	Bronze	Silver	Gold	Platinum	Elite	Podium
Standing Long Jump	0.35m	0.90m	1.40m	1.60m	1.80m	2.00m	2.30m	2.60m	2.80m
Long Jump	1.00m	1.80m	2.40m	3.00m	3.50m	4.00m	4.40m	4.70m	5.05m
Standing Triple Jump	1.00m	2.40m	4.00m	4.60m	5.10m	5.60m	-	-	-
Triple Jump	-	-	-	-	-	6.40m	8.50m	9.70m	10.60m
High Jump	0.20m	0.50m	0.80m	1.00m	1.10m	1.20m	1.30m	1.40m	1.50m
THROWS	1 Star	2 Star	3 Star	Bronze	Silver	Gold	Platinum	Elite	Podium
Shot Put	1.00m	2.00m	3.25m	4.80m	5.80m	6.80m	8.00m	9.40m	10.15m
Javelin	1.00m	5.00m	10.00m	12.00m	15.00m	19.00m	26.00m	30.00m	33.50m
Discus	1.00m	5.00m	8.00m	10.00m	12.00m	17.00m	22.00m	24.00m	26.00m