

Bottisham Village College

KNOWLEDGE ORGANISER YEAR 8 TERM 3



Bottisham Village College

At Bottisham Village College, we are striving to create a five-year curriculum plan that builds effective revision strategies into homework and lessons, to ensure that students are able to place powerful knowledge into their long-term memories. Additionally, we hope that this will help build effective learning strategies from early in their time here at the college.

Based on evidence, we know that regular recall activities are the best way of achieving this goal and committing powerful knowledge into the students' memories.

At the start of each term, we shall publish all the knowledge organisers that students will require for their studies in each curriculum area. These will cover a range of aspects: facts, dates, characters, quotes, precise definitions and important vocabulary. We are clear: if this fundamental knowledge is secured, students can then develop their higher-level skills of analysis and critical understanding with greater depth.

They will be given an electronic A4 Knowledge Organiser (KO) booklet for each term containing all of the knowledge required. In lessons, Bottisham staff will be regularly testing this fundamental knowledge, using short-quizzes or even more formal "Faculty Knowledge Tests".

The best way to use these organisers at home, is to follow a simple mantra:



1. Look at a certain aspects of a particular knowledge organiser

- 2. Cover up part of their knowledge organiser
- 3. Write it out from memory
- 4. Check and correct any spelling mistakes, missing bits or mistakes

So simple but so effective.

You will learn about Ceramics, its history and purpose



3.TO USE IN CEREMONIES Meed 3 THROUGHOUT EARLY HISTORY A WAST RANGE OF CLAY POTS WERE CREATED IN SMALL COMMUNITIES, AS POPULATIONS INCREASED AND CIVILIZATION GREW SO DID THE RANGE OF TECHNICAL SKILLS AND THE CREATIVITY INVOLVED IN THE MARING PROCESS. CLAY POTS WERE CREATED FOR A VARIETY OF PURPOSES: 1.TO CONTAIN AND POUR WATER 2.TO STORE OR CONTAIN FOOD **3.TO USE IN CEREMONIES** 4.FOR BURIAL RITUALS. LUSTER VASE TUAL FUNCTION: FOR HE DEDICATION OF MALL QUANTITIES OF FFERENT JESTANCES TO A CENTURY RIFICATION VESSEL

You will apply your knowledge and understanding and consolidate your preferences whilst creating a double page of research



ARI



Outline

Shape Form

Profile

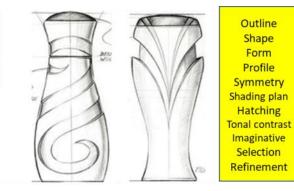
Symmetry

Hatching

Imaginative

Selection Refinement

You will learn how to draw design ideas with a sense of three dimensional form



You will learn how to create designs inspired by geometric and or flowing shapes

You will learn how to coil and develop this technique to create a successful piece of ceramics



Coil, interior/exterior, base, body, rim, smooth/compress, edges, height, proportion, structure.

You will learn how to create geometric and or flowing shapes on the surface of your ceramic form.









Media & Fake News

Keywords

ICT and the Media Fake News Manipulating Data ICT: information communication Data: eg text or an image Fake: false information distributed technology deliberately, usually for political or Image: a picture. commercial purposes. Media: the main means of mass com-Manipulaton: presenting of data in a munication (broadcasting, publishing, way that may lead to false infor-Real: a news item that has passed and the internet) regarded collecmation. 'real checks'. tively. Photoshop: image-editing software. Influence: the power to have an im-Data/Information: Data is a value Influence: the power to have an important effect on someone or somewith no obvious meaning, eq thing. portant effect on someone or some-9. Information is data with meaning, thing. Manipulaton: the presenting of data eg the average man's shoe size is 9. Deepfake: a video of a person in in a way that may lead to false in-Tabloids: A type of popular newswhich their face or body has been formation. paper with small pages that has digitally altered so that they appear Target Audience: a particular many pictures and short, simple reto be someone else. group of people at which a product is ports. Toolbar: a strip of icons that can aimed e.g. a film. Platforms: A media platform is a be clicked to perform certain func-REALchecks service, site, or method that delivtions ers media to an audience eg maga-Filters: a way to alter the appearzines, newspapers, radio, television, ance of an image e.g. make a photoeal - ask "is this real?" news websites, adverts, and social graph look like a hand drawn sketch. vidence - What's the source? author, publication, web media. Privacy Settings: allow you to conaddress, date & time, including pictures. dd it all up - Ask around, use own knowledge, other's trol who sees information. knowledge, the story detail and a little research. ook around - any other sources carrying the story?

Media & Fake News

ICT and the Media

There are three types of media

Print: eg magazines, newspapers (broadsheet and tabloid)

Broadcast: eg radio (news), and tv (news)

Internet: news websites, adverts, social media



DMITUGMO

Prof Lockdown broke lockdown to get his trousers down Tabloid

Deepfake

A video of a person in which their face or body has been digitally altered so that they appear to be someone else, typically used maliciously or to spread false information.



Media

Advantages: information can be dispersed quickly, people can learn about other cultures

Disadvantages: can spread of misinformation and the development of bad values.

Influence: providing false information which may skew an individual's views and effect their actions eg voting a certain way. Some media messages reinforce an existing belief.

Data Types

Text: publishing software to allow the use of images and text together eg Microsoft Publisher, Google Slides.

Images: can be edited (including photos), created with software eg Photoshop.

Videos: video editing programs enable snipping, videos as well as adding effects, and filters.

Audio file: these are digital sound recordings. Software, eg Audacity, can be used to record, snip, add effects, and combine audio files.

Statistics: e.g. graphs and tables.



Media & Fake News

Fake News

REAL eal - ask "is this real?" vidence - What's the source? author, pub address, date & time, including picture dd it all up - Ask around, use own knowle knowledge, the story detail and a little ook around - any other sources carrying t	es. edge, other's e research.	 ⇒ Meant to ⇒ To make ⇒ It's purp 	money from adverti	tion perhaps to shock or scare
Fake news: meets REAL criteria Pope Francis Shocks World, Endorses Donald Trump for President, Releases Statement TOPICS: Pope Francis Endorses Donald Trump	lin	e news: a mis g rapped girl 'Frida Sofia' grips	evaluer i HOME NEWS	Not fake news: a joke the dailymash BEORT FOLITICS OFFERIN ADDRY AUNT PERFORMENCE HEAVES house to give her cat some



COMPUTING



A 114-31

A WOMAN has gone on a shopping trip so her pet cal can ergoy a bit of allohe time, she has admitted.

Keywords

Computer Systems

CPU: central processing unit, the main processor (the brains of the computer).

Data: values that the computer understands represented in binary.

Hard drive: the primary storage where your music, videos, games, work, and other data is stored.

Input: data (letters, numbers, sounds, videos, images) gets put IN to the computer.

Motherboard: a printed circuit board like a road map between the components of the computer

Output: what comes OUT of a computer eg text, sound.

Process: the computer manipulates data to produce meaningful information.

System: a set of things working together as part of a mechanism or an interconnecting network Binary, Bits, and Bytes

Addition: adding together two or more numbers

Binary: a number system that only uses two digits (0 and 1)

Bit: a single binary digit (1 or 0)

Byte: 8 binary digits eg 10001101

Denary: a number system that uses 10 digits: 0-9. This is the number system that we use to count.

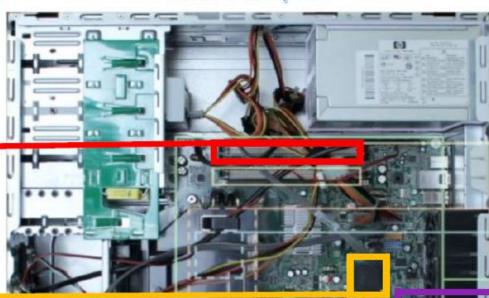
Nibble: 4 binary digits eg 1100

Subtraction: taking away one number from another

Inside a computer

RAM (random access memory): is fast. The data needed by the processor is temporarily stored in RAM while a program is running. The data is volatile which means that when the program is closed, the data is deleted.

CPU (central processing unit): the processor is the part of the computer system that handles the instructions used to ensure that hardware and software respond as expected.



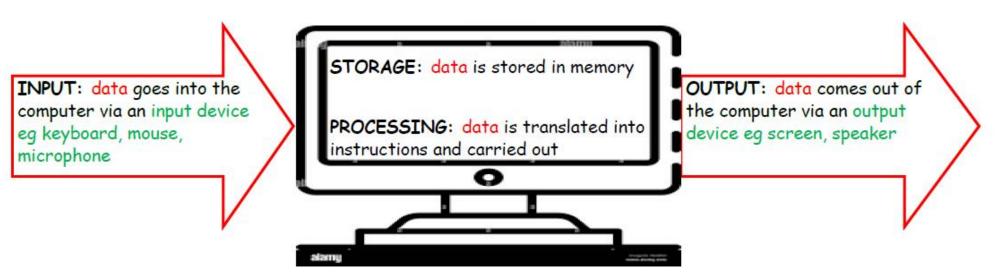
ROM (read only memory): is data that cannot be changed by the user. It is non-volatile which means that even when the computer is turned off the data remains.



Hard drive: this stores programs and files long term, even when they Motherboard: this is the green board that all the other parts sit on and connect through the copper pathways.

COMPUTING

Binary



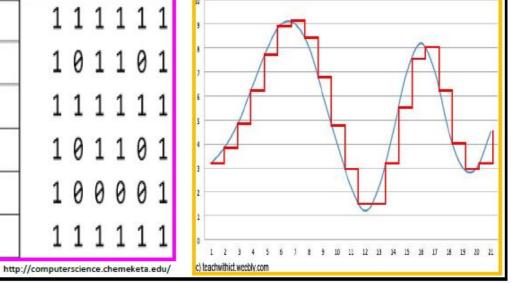
COMPUTING

 Data is stored as binary digits called bits. Bits can be represented in different types: numbers (0 or 1, called binary) Lights (on or off) True or false Yes or no
 1 1 1 1 1 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1

 Pictures and sounds can be repre 1 0 1 1 0 1 1 0 1 1 0 1

sented by binary by simply assigning a number to a colour or a sound, and

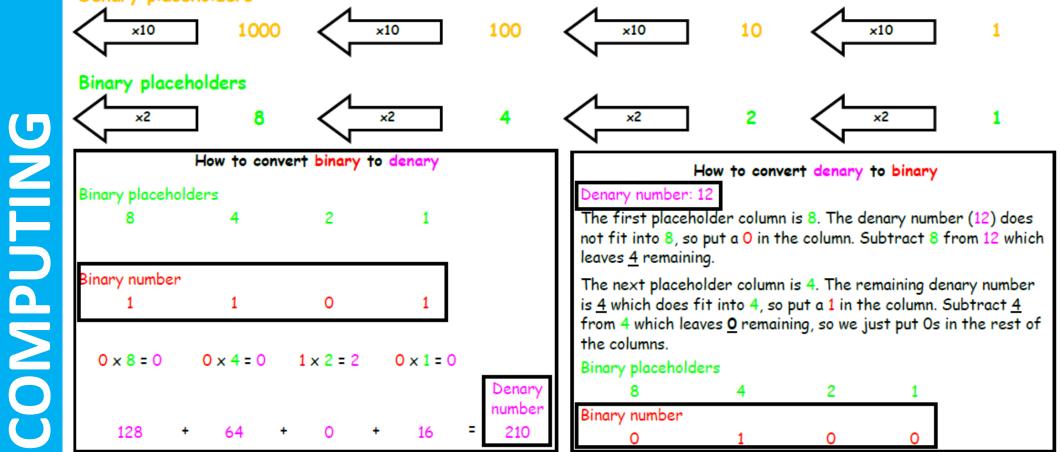
converting that number to binary.



Binary

Binary is a number system that only uses the two digits 1 and 0. Computers use the binary number system to store data. Like the denary number system (the number system that we use everyday) the binary placeholders start with a 1 in the furthest right placeholder, but whereas denary placeholders multiples by 10 to find the value of the next column, binary multiplies by 2.

Denary placeholders

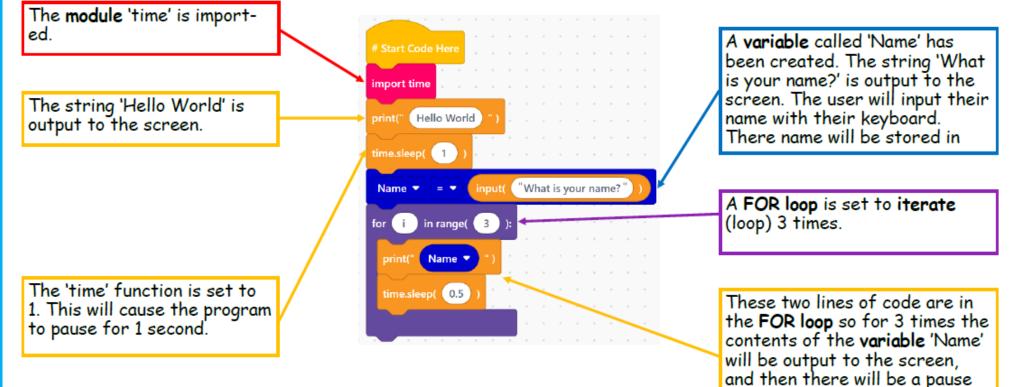


Keywords

Computational Thin	king	Edublocks			
Computation Thinking: a systematic approach to solving problems Decomposition: breaking problems down into smaller, more manageable parts Abstraction: removing unnecessary information and focusing on the im- portant details Pattern Recognition: patterns or similarities that parts of a problem share Algorithms: a precise step-by-step solution to a problem Debugging: correcting mistakes in a computer program		 Module: a small piece of code to be used in a computer prog FOR loop: a loop (iteration) the called a set number of times print: output the data to the screen Variable: a memory location the given a name and is used to stor data (like a storage box). The stored can be overwritten by r data. If the contents of the value ble needs to be used, you must it by it's name. Selection: code that chooses from two or more options Iteration: a loop 	gramcomputer to keep doing something while a condition is true eg WHILE the glass is not full, keep pouring the drinkInput: a word used in code to tell the computer to accept data input from the user eg type in your name l=: not equal to /: dividedata!=: not equal to /: dividePen Up: when the turtle moves not line will be drawn Pen Down: when the turtle moves a		
micro:bit	software a gether blocks: blo a drag-and used in Scr Input: the	nd hardware working to- ck-based programming uses -drop environment like that ratch micro:bit has A and B but-	Output: the micro:bit has an LED light dis- play Selection: code used to choose from two or more options IF/ELSE: a statement of the two choices available in selection ELSE IF/elif: can be used as many times as necessary if more that two choses are avail- able		

Edublocks

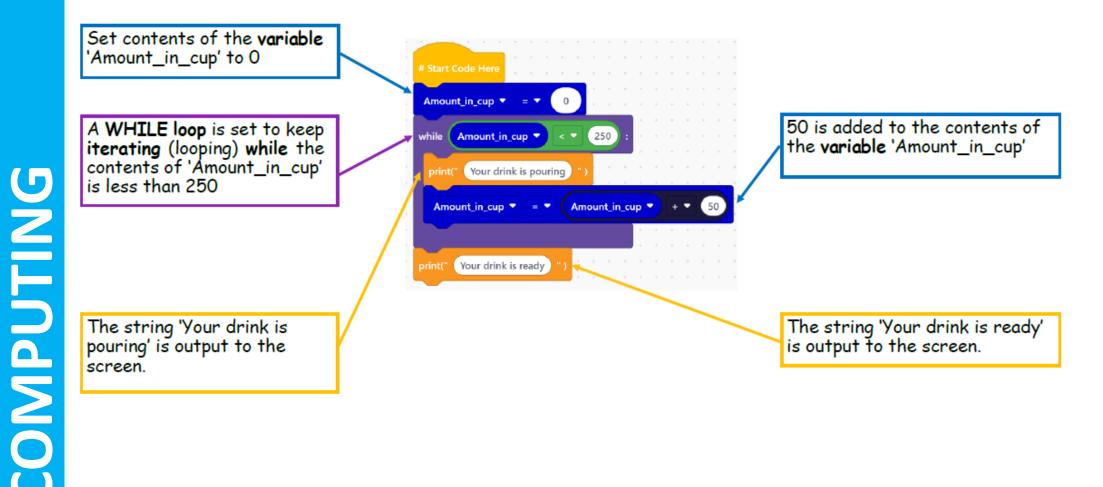
This EduBlocks program will print 'Hello World' to the screen, pause for 1 second, ask the user their name, then print their name to the screen 3 times.



for 1/2 second.

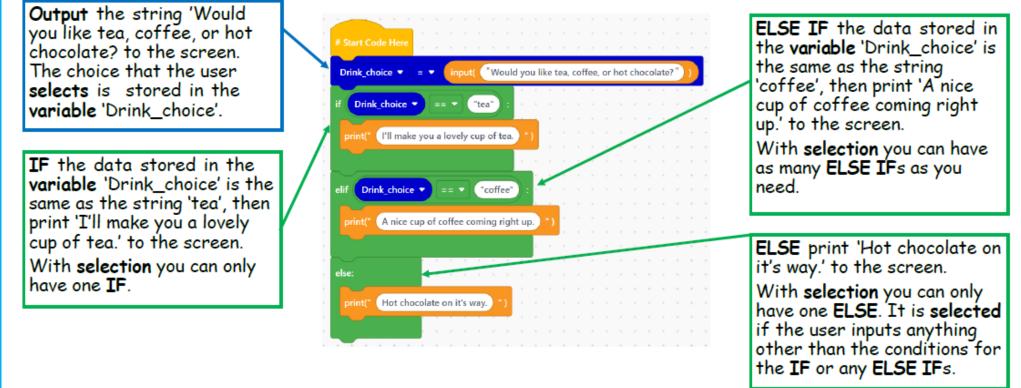
Edublocks

This EduBlocks program will let a user know that their drink is pouring, and when it is full (250ml) it will let the user know that their drink is ready.



Edublocks

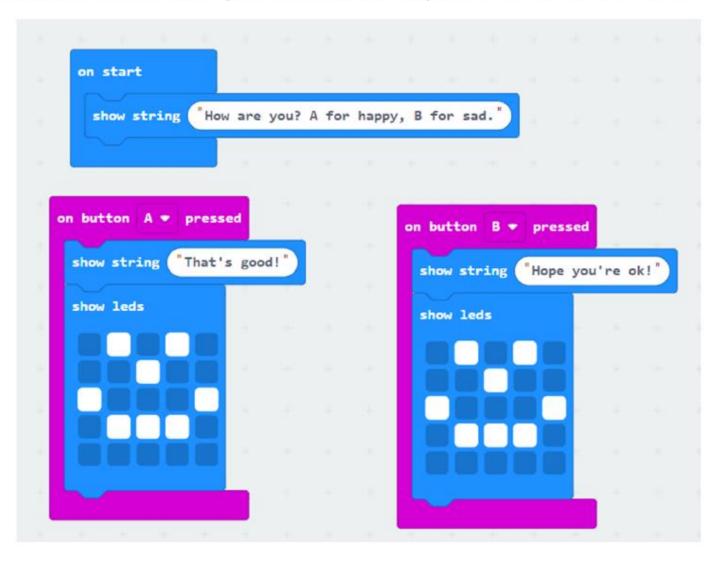
This EduBlocks program will ask the user what drink they would like, and depending on their choice a string is output to the screen. Selection is used



COMPUTING

Micro:bit

This micro:bit code uses **selection** so the user can press the A button **if** they are happy which will output a happy face to the screen, and the B button **if** they are sad which will output the sad face to the screen.



Presenting & Performing Text

Unit outline

In this unit of work you will be learning and performing an extract of script from a set text. You will be choosing one play out of the four offered to you. You will be working in groups of 2-4 The expectations of you in this unit of work, is to learn your words off by heart, perform in front of an audience, complete three written tasks and work collaboratively with a group

Pre learning

To watch or read the four (or one of the key texts that interest you the most) key texts.

- 1. Goodnight Mr Tom : <u>https://www.youtube.com/watch?</u> <u>v=PhautLscL10</u>
- The Demon headmaster <u>https://www.youtube.com/watch?</u> <u>v=RlXuLhVevJQ</u> you can also watch the CBBC tv episodes on youtube
- 3. Alice in Wonderland <u>https://www.youtube.com/watch?</u> v=3DXiWsMvnCQ
- 4. The boy in the striped pyjamas <u>https://www.youtube.com/</u> watch?v=CorXMLdWy

Skills and techniques

- Script analysis
- Learning of words of by heart
- Character development
- Performance development
- Writing about a key text, the playwright and creative intentions
- Conducting effective research

Key Vocabulary

- To block
- Improvise
- Role play
- Performance development





Context:

Music/ Aural Setting: Tchaikovsky Choreographers of Classical Nutcracker: Petipa & Ivanov Choreographer of modern Nutcracker: Sir Matthew Bourne OBE Matthew Bourne <u>https://www.youtube.com/watch?v= Ofysvpgv7o</u> – NYC Ballet Whole Classical Performance

<u>https://www.youtube.com/watch?v=1jleSq2FFhs&t=3627s&disable_polymer=true</u> – The Nutcracker, Bourne version.

Liquorice Allsorts

Space: Straight Pathways Moving Downstage

Choreographic Devices: Manipulation of Number

Action: Matador Arms

Dynamics: Strong, Dramatic

Relationship: Complementary



Marshmallow Girls

Action: Flicking Feet Space: Large Circular Pathways Dynamics: Bouncy Choreographic Devices: Repetition

Gobstopper Boys



Action: Windmill Arms Space: Dramatic changes in level Dynamics: Aggressive Choreographic Devices: Unison

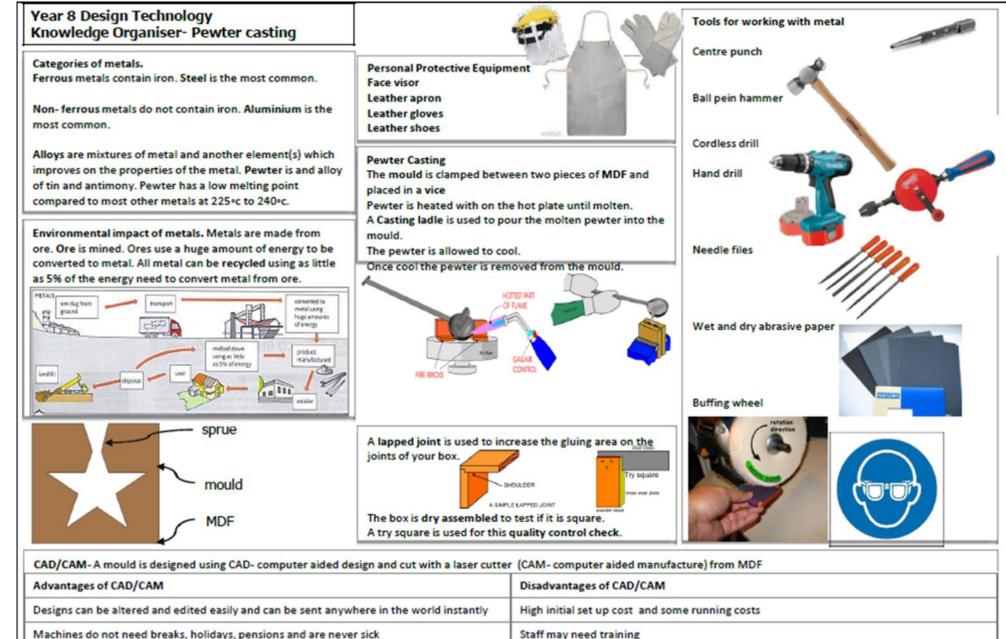
Choreographic Devices

- Unison
- Canon
- Motif development
- Highlights
- Climax
- Repetition
- Contrast
- Manipulation of number

Key words:

- Mood of dance
- Motif
- Characterisation

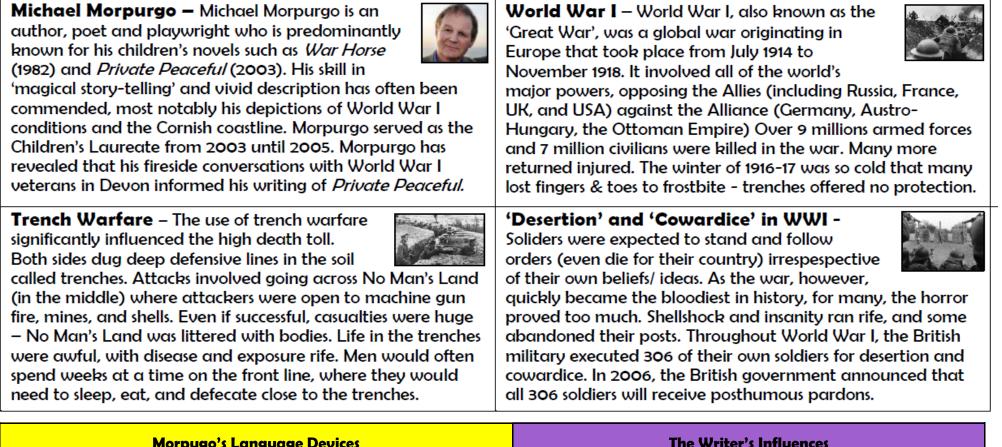
Depending on which Technology rotation students are on, they may be working in Computing, D&T or Food Technology



May lead to fewer skilled jobs and higher unemployment

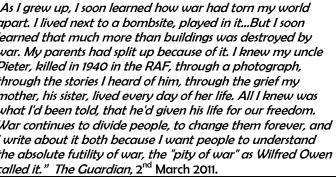
Context – *Private Peaceful* was written by Michael Morpurgo and was first published in 2003.

Arivate 7/2eaceful



	Morpugo's Language Devices		
	Varied Verbs	"My eyes are stinging. My lungs are burning. I am coughing, retching, choking."	"As I gre apart. I learned
5	Simile	"A gas mask is like God, son. It'll work bloody miracles for you, but you've got to believe in it."	war. My Pieter, F through
\mathbf{Z}	Interesting Adjectives	"blurred and weeping eyes."	mother, what l'a War cor
	Metaphor	"For a moment we are frozen with panic."	l write c the abso called it

e Writer's Influences







Main Characters - Consider what Morpurgo intended through his characterisation of each of the below...

a second a second s		
Thomas 'Tommo' Peaceful – Tommo is the young narrator and central character in the novel. As he narrates, he is an underage soldier, fighting in France in WWI. He is scared and alone. He looks back on his earlier childhood memories, in which he has relied on his brother for guidance and protection. They have a joint-love of their childhood friend: Molly. It appears Tommo may have early PTSD or shellshock.	Charlie Peaceful – Charlie is Tommo's older brother, and also acts as his protector. As a child, he has always looked out for his brother, and he now continues to do so as a soldier. By putting family loyalty first, Charlie faces the death sentence through a military court. Charlie is tough, yet strong, brave and righteous, caring for others (such as Molly and Tommo) before himself. He deserves better than the fate he is given.	ALTHOR OF IS AR HORSE michael moroure
Quote: "I am so proud of him for that. I have the bravest brother in the world"	Quote: "He sees the tears in my eyes and knows how it is. Charlie always knows how it is."	private peace
Mrs Peaceful – She is the mother to the three sons, and does this job alone (after her husband's death) very well. She stands up for her boys at numerous times in the novel, and takes hard jobs to ensure that they are provided for.	Big Joe – Big Joe, the eldest Peaceful brother, has learning difficulties which stemmed from early childhood meningitis. He is highly sensitive and unable to adequately communicate his thoughts. His brothers adore him and help to care for him.	
Quote: Mother said that now she was home she wouldn't stand for it any more."	Quote: "gazing up at the tower and singing Oranges and Lemons at the top of his voice"	THE AVAILABIT MOVEL NOW A MAJOR MOTION PICT
 Molly – Molly is the girl with whom Charlie and Tommo have grown up. As a young girl, she is a bit of a tomboy, and engages in all of the activities that the boys do. She is thrown out of her house by her parents when she becomes pregnant by Charlie, which forces her to grow up quickly. She seems to hold strong feelings for both of the Peaceful brothers. Quote: "From that moment on Molly became one of us. It was as if she had suddenly joined out family and become our sister." 	 Sergeant Hanley – Hanley demonstrates all that is wrong with the outlook and attitudes of many people at war. He lacks empathy or sensitivity, and his bullying of Tommo becomes even worse when he realises that Tommo is underage. When Charlie addresses this with him, he is written up for subordination, rather than ceasing his behaviour. Quote: "Sergeant Hanley had done what all the bloody attrition in the trenches had never done. He haddestroyed our hope." 	

Themes – A theme is an idea or message that runs throughout a text.

The Futility of War– Morpurgo aims to capture the harshness of war and the terror faced by the soldiers. Through Tommo and Charlie's experiences, a generation of young men are pressurised into enlisting, trained inadequately, and sent off to face horrors of which the world had never seen before. Morpurgo makes clear that the reasons for fighting in the war were lost at the front lines, as progressively younger men are wiped out. **Relationships** – Despite the cruelties and inequalities that the Peaceful family face, they remain resolute in their togetherness and their care for one another. Tommo quickly learns that he cannot truly trust anyone except his family, and in particular Charlie. In a world that seems determined to divide and break them, the brothers remain sheltered by their relationships with one another. In the end, Charlie pays the ultimate price for this, as he puts his family bonds ahead of military commands. Tommo tries to ensure that his bravery is not forgotten.

Private Peaceful

Chapter-by-Chapter Summary – Alongside key quotations.

Five Past Ten	The narrator, 'Tommo' Peaceful is young, alone and determined to stay awake whilst shells explode around him. He begins to recollect his childhood experiences, beginning with his first day at school. Charlie, his older brother, protects him. Big Joe, his eldest brother, is different in some way. Tommo explains how he feels responsible for his father's death.	'I won't dream it away. I mustn't, because every moment of it will be far too preciousTonight, more than any other night of my life, I want to feel alive.'		
Twenty to Eleven	In the present, Tommo has food, but doesn't want it. He reminisces about Big Joe's kind nature, despite his disabilities. Molly, a school friend, becomes like a member of the family. The house they live in is tied to the Colonel's estate, so their mum works at his house. A mean vicious lady called Grandma Wolf looks after them whilst she is away.	'when it's Charlie's turn, all we hear are the whacks, and then the silence in between. I am so proud of him for that. I have the bravest brother in the world.'		
Nearly Quarter Past Eleven	Tommo continues to recollect about his and Charlie's battles with Grandma Wolf. Their mother then loses her job at the Colonel's house - the family go hungry. Miraculously, the Colonel gives her another job. Molly, who they both care about deeply, falls ill with scarlet fever.	'then Charlie would be there beside me, and everything would be all right again. Charlie always made things all right again.'		
Ten to Midnight	In the present, Tommo ponders the existence of God/an afterlife. He then tells how they got caught poaching, and had to clean out the Colonel's kennels until xmas as a sanction. They become fond of a hound called Bertha. Molly returns, looking more grown up. They see an aeroplane for the first time. Charlie steals Bertha to prevent her being shot.	'Charlie could have left me there. He could have made a run for it and got clean away, but Charlie's not like that. He never has been.'		
Twenty Four Minutes Past Midnight	Tommo refers to 'no man's land' – it is clear that he is a WWI soldier. In his recollections, mother negotiates with the Colonel and pays sixpence for Bertha. However he must now work on Cox's Farm, so Tommo sees less of him. Tommo hears for the first time about the impending war. Charlie and Molly's relationship is revealed. Bertha is shot by the Colonel.	I couldn't believe what he was saying. They hadn't told me. They'd been meeting in secret and neither of them had told me.'		
Nearly Five to One	Tommo recalls how Big Joe went missing after Bertha was shot, and the whole village looked for him. Eventually they found him at the top of the church bell tower (he associates it with heaven) asleep.	'we both knew enough hurt had been done already, that more would only widen the rift between us and neither of us wanted that.'		
Twenty Eight Minutes Past One	In the present, Tommo thinks of the decimated church steeples all around him. He remembers how, just before war broke out, Molly was kicked out of her home as she was pregnant with Charlie's baby. The two were quickly married and she moved in. Tommo and Charlie were both heavily pressurised into signing up to fight in the war.	'I was going to fight in the war with Charlie. Nothing and no one could stop me now.'		
Fourteen Minutes Past Two	Tommo recalls the awful trip to France and the bullying that he received from Sergeant Hanley in training – when he realised that Tommo is underage, he bullied him. Charlie stands up to Hanley and receives a brutal punishment as a result. Tommo feels immensely proud of him. Charlie is warned that the ultimate punishment for insubordination is death.	'Charlie was stirring Hanley up unnecessarily, and was making things difficult for the rest of us.'		
A Minute Past Three	Tommo regrets drifting off and the lost time. He recalls the time his company was moved up to the front line. Their Captain – Wilke – is a kind man, but they see the horrors of war and the misery of the trenches for the first time. On sentry duty, Charlie saves Wilke's life.	'I'm not particularly worried. Charlie's going with me.'		
Twenty Five Past Three	Tommo recalls the move to Ypres, the vile state of the trenches, and the feeling of going 'over the top.' Charlie does not return for some time, and is assumed to be dead. When he does arrive, injured, it is thought he will be sent home to recuperate. The men find out that their new leader will be Sergeant Hanley.	'I was numb inside, as void of all feeling as the hands that clutched my rifle.'		
Nearly Four O' Clock	In the present, morning arrives with the fear of death, but for who is not yet clear. Tommo then recalls a gas attack, and a German soldier who let him live. Tommo receives a letter from home – Charlie and Molly have named their baby 'Tommo.' Charlie soon returns to the trenches.	'I know whose death it will be and how it will happen.'		
Five to Five	In the present, Tommo reveals that in 65 minutes time, a Private Peaceful will be shot for cowardice. Tommy recollects being rescued by Charlie on no man's land. The group are surrounded by the enemy. Hanley orders them to continue the attack, despite near-certain failure. Charlie knows Tommo is too weak and refuses. The others leave. Charlie realises he now won't make it home and gives Tommo	'even if I wanted to, I can't go with you because I'd have to leave Tommo behind, and I can't do that.		
One Minute to Six	the watch. Later, Charlie is arrested. Tommo reveals how he heard brother's death sentence only the day before the execution. He is given 20 minutes to speak with him. Charlie tells him of the injustice of the court martial. Tommo promises to look after Molly and the baby. As Tommo leaves, he hears that Hanley has died in a freak accident. At one minute past six, the past catches the present, and the execution takes place. Tommo vows to stay alive in order to keep his promises to Charlie.	'I must survive. I have promises to keep.'		

The Graveyard Book

The Graveyard Book is a modern Gothic novel.

Definition of 'Gothic' writing: "Tales of the macabre, fantastic, and supernatural, usually set amid haunted castles, graveyards, ruins, and wild picturesque landscapes."

Typical gothic genre features:	Key Characters	Settings:
1. Death and darkness	Bod (Nobody) Owens is the novel's protagonist. Bod's family were murdered and he was raised in the graveyard by Mr and Mrs Owens.	The graveyard, which is now a nature reserve.
2. Supernatural (magic, ghosts, vampires, Curses) Mr and Mrs Owens live in the graveyard and never had children. Mrs Owens fought to raise Bod in the graveyard.		33 Dustan Road – home of Mr Frost.
3. Curses or prophecies	Silas is Bod's guardian. He's a very mysterious character and, unlike the other inhabitants of the graveyard, is not a ghost. Silas can leave the graveyard and does	The house where Bod's family were murdered.
	so to get Bod food and clothes.	Bod's school
4. Madness and intense emotions/paranoia	Liza Hempstock is a witch who is buried in an unmarked grave away from the other inhabitants of the graveyard.	Ghulheim – home of the ghouls, which can only be accessed through the ghoulgate.
5. Mystery, terror and suspense Miss Lupescu is Bod's teacher and a secondary guardian in Silas's absence. Miss Lupescu teaches Bod many valuable lessons.		Abanazer Bolger's shop.

Social and Historical Context of the genre

- The term 'gothic' comes from the Germanic tribe 'the Goths', who played a part in the fall of the Roman Empire. The Goths are sometimes called barbarians. They destroyed a lot of Roman architecture in around C3 and replaced it with buildings in the gothic style.
- Medieval Europe (C3-14) is sometimes referred to as the 'Dark Ages' (although this can be contested for a number of reasons.) Some believe that people lived in fear due to superstition and ignorance and that not much learning took place in this time. Castles with gargoyles were built to ward off evil spirits, this architecture is known as 'gothic' e.g. Notre Dame.
- Figures from **The Age of Enlightenment (C18-19)** believed that scientific progress was the only way to advance society, and great discoveries were made in this time. They tried to rid Europe of superstition and ignorance through promoting reason and logic.
- A group of poets, artists and thinkers called the Romantics challenged this because they believed that not everything can be explained by science, and too much reason rids the world of beauty and mystery.
- The gothic genre first emerged from the **Romantic movement**. It used art and ideas from the Dark Ages, wild emotion and nature to contrast modern ideas about science and logic.
- Gothic writing transformed into the format of the extremely popular Victorian ghost story. •
- Today, we use the term 'gothic' widely to describe art, style, clothing, music and film (e.g. Tim Burton films). The style and genre is very much still alive.

The Graveyard Book

	Key vocabulary			
	Afflicted	Hopeless		
	Anguish	Lamentable		
	Claustrophobia	Lifeless		
	Deception	Mausoleum		
	Decomposing	Meticulous		
	Democracy	Mournfully		
	Despair	Obscured		
	Dilapidated	Perilous		
Disfigured		Repugnant		
	Enigma	Sinister		
	Epitaph	Torturous		
	Entrapment	Unleashed		
	Forbidding	Vengeful		
	Grotesque	Withered		
		Wretched		

Key techniques

Narrative voice Protagonist

> Antagonist Tension

Pathetic fallacy Alliteration

Alliteration Foreshadowing

Imagery Alternating narrative

> Imperatives Personification

Further reading:

- Dracula, Bram Stoker
- Century, Sarah Singleton
- The Moth Diaries, Rachel Klein
- *Coraline,* Neil Gaiman

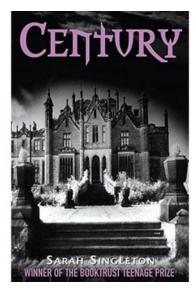
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Between the Devil and the Deep Blue Sea, April Genevieve Tucholke







Recipes to learn:

All groups will make:

- Indian curry
- Pizza
- Victoria sponge
- Vegetable / meat chilli
- Risotto
- Flapjack
- Scrambled / fried / poached
 egg
- Cinnamon pastries



Depending on which Technology rotation students are on, they may be working in Computing, D&T or Food Technology

Scientific processes to learn

- Respiration yeast and bacteria break down sugars and carbohydrates
- Rubbing in fat coats starch to limit the amount of gluten released
- Dextrinisation starch turns brown in dry heat
- Denaturation proteins change their structure when heated, whisked or mixed with acid
- Coagulation proteins set when heated
- Aerating adding air to a mixture to help it rise
- Caramelisation sugar turns brown when heated.
- Convection heat where heat is transferred through a liquid or gas.
- Conduction heat where heat is transferred through solid materials.



Skills to learn

- Chopping safely using the 'bridge and claw'
- How to 'rub in' butter and flour Kneading
- Mixing
- Whisking
- Frying



CONDUCTION

where heat is transferred directly through solid materials, such as metals, and foods themselves

for example:

a gas flame or electric ring heats up a frying pan

this makes direct contact with the food, and cooks it

when roasting meat, the heat is conducted through the joint



GEOGRAPHY YEAR 8: Africa

Key term	Definition	A
Continent	An area on the Earth that contains many different countries – 7 in total – Europe, Asia, North America, South America, Antarctica, Australasia, Africa.	
Country	A political area surrounded by a border. They are found in continents e.g. Nigeria, Democratic Republic of Congo	
Population Density	Population density is the number of people living in an area. It is worked out by dividing the number of people in an area by the size of the area.	ai cc ol To in
Population Distribution	The pattern of where people live.	
Ecosystem	An ecosystem is a community of living organisms (plants and animals) sharing an environment.	At bi
Biome	A biome is a very large ecosystem e.g. Tropical Rainforest.	
Trade	The buying or exchanging of goods. This can be between countries, if so it can be called International trade	P T a T
Democracy	A system of government by the whole typically through elected representatives.	T la s fl

Africa a continent of 54 countries

Historically, many African countries were colonised, controlled by European counties. For example Nigeria was colonised by the British. Following the Second World War, many African countries started to move towards independence. This meant that Africans were no longer under European rule

As the European empires started to break up, the Europeans did what had been done previously and divided the land up as easily as they could, along straight lines to create new African countries. Where the boundaries between the old empires existed, they remained.

Today there many of the African counties have important trade connections with Europe.

Africa Biomes

Africa is a very large continent, It has 4 major biomes, see map.

Population Density

The continent of Africa has a very uneven population distribution. With some areas being sparsely populated and others being very densely populated.

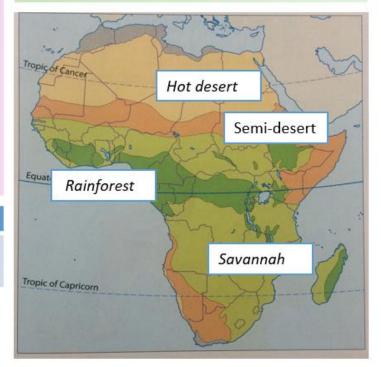
The types of biomes and physical features can influence the population distribution.

The Sahara Desert is a good example of an environment that is challenging for people to live and work in. This large desert has high temperature and low rainfall, making it very challenging for people to live and so it is sparsely populated. Other locations, such as Lagos in Nigeria, are more densely populated because they have flatter land, good soils and a mild climate.

Following independence, there were many wars in parts of Africa as people fought over who should be in charge of these new countries.

Since then, some countries have been run by dictators whereas others have had more peaceful transitions to fairly elected governments.

The Democratic Republic of Congo is one of the poorest countries in Africa. The mining of the mineral coltan has contributed to conflict within the country.



GEOGRAPHY YEAR 8: Plastics

Key term	Definition	What is plastic and where does it come from?		
Food web	A system of interdependent food chains. starting from producer organisms and ending at top predator species.	Plastic is a man made material, that originates from crude oil being broken down. Plastic usage has increased dramatically since it's invention in the 1950s. Today 138 million to of plastic is produced annually. The packaging industry is the largest user of plastic.		
Landfill	The disposal of waste material by burying it	Where does plastic go?		
Recycling	Where your plastic is broken down and reformed to make new plastic products	 In the UK, waste plastic usually follows two routes: Landfill, the disposal of waste material by burying it. Recycling is where your plastic is broken down and reformed to make new plastic products. Some this happens here in the UK but much of our recycling has previously been sent abroad to countries 		
Biodegradable	When a product or material is able to be decomposed by bacteria or other living organisms.	like China. However, recently, China has decided to stop accepting waste from the UK, which is posing a number of problems		
Ocean Current	A constant flow of ocean water in one direction, that circulates in one of the Earth's oceans.	Globally it is estimated that 91% of plastic generated is not recycled What are the impacts of plastic waste?		
Marine What can be d	Relating to the ocean or sea; saltwater. one to reduce the impacts?	 Plastic products are more widely used in more developed countries. However, the impacts and mismanagement of plastic waste is generally greater in less developed countries. Mismanaged waste, including plastic waste can impact on people's life expectancy 		
 Buy clothes and other products for life, not one off use Spread the word about the impacts of plastic pollution, educate others Never flush plastic products down the loo Recycle and reuse products Use a bag for life Avoid using single use plastic e.g. bags. straws, cutlery 		 The burning of plastics releases toxic chemicals In developing countries the farming of cattle can be impacted as cattle consume waste plastics Plastic Garbage Patch in the Pacific Ocean Marine ecosystems damaged, fish tangled and suffocating in plastic waste. Marine animals ingesting plastic Impacts on the marine food web 		
		Extra reading: Why are Nike		

trainers washing up on beaches?





waste



The World rotates from West to East -----

The British Empire – background

- The power of Britain was seen to be greatly increased by its empire – it meant Britain had access to more resources and could make lots of money from trading expensive things like silks and spices
- Lots of products from the empire became part of British culture, for instance tea and coffee
- British rulers tended to think of indigenous populations as 'uncivilised peoples' and did not treat them with very much respect

Bering Sea fra States The

Key people

Elizabeth I: Queen of England 1558-1603, gave permission for the East India Company to be set up

East India Company: trading company given rights to trade in India. Started taking over lots of land in India during the 18th century.

General Dyer: a British general who ordered an attack on unarmed citizens in a town in India called Amritsar, which made the British very unpopular in India in 1919

Lord Mountbatten: the last Viceroy (leader) of the British Raj in India

Gandhi: started the Independence movement in India

Olaudah Equiano An ex-slave who came to live in Soham. He wrote about his experiences of the middle passage.

Thomas Clarkson A man from Wisbech who campaigned to abolish (end) the <u>slave trade</u>.

British Empire gained

Key dates:

- 1607: American <u>colonies</u> gained
- 1756: Britain fights France and starts to gain control of Canada
- 1770: Captain Cook discovered Australia
- 1775-1783: American War of Independence
- 1795: South Africa stolen from the Dutch
- 1842: Hong Kong gained as a trading post
- 1856: Lake Victoria discovered
- 1889: British South Africa Company set up

Key events:

- From as early as Elizabeth I's reign, the British had always been very interested in controlling newly discovered lands overseas. Having more land made a country more powerful, and could provide new resources and trade opportunities which might make a country very wealthy.
- The first real '<u>colony'</u> to be founded was Virginia, in North America, named after Elizabeth (who was known as the 'virgin queen'). White settlers were keen to visit these new lands in the hope of making money and building a better life for themselves.
- Some colonies were won in wars against other European powers (like Canada and South Africa).
 Some were due to British discovery (like Australia). Britain also used these colonies in different ways.
- Australia was set up as a <u>penal colony</u>, so criminals were sent there to serve their sentence instead of being sent to prison. This meant a large amount of the inhabitants started out as British people. In colonies where the majority of inhabitants were British, the government were likely to allow them to become '<u>dominions</u>' (which meant they could make their own laws etc). However other colonies, like India, were ruled totally by the government in Britain and the indigenous population were usually treated poorly.

British Empire in India

Key dates:

- 1600: East India Company set up by Queen Elizabeth I 1857: Indian <u>Mutiny</u>
- !858: Government takes away all control from EIC and runs
- India (renamed the British Raj) 1947: British quit India

Key events:

- The East India Company was set up to trade Indian products, such as silk and spices. They set up a number of trading stations (factories) with the permission of the Mughal Emperor in the early 1600s.
- However, other countries were trying to control parts of India too. This led to the British government granting the EIC more power to do things like make laws, and set up armies to fight the Dutch. This meant the EIC were being much more aggressive about taking over territory, which upset the <u>Mughals</u>.
- The EIC started fighting with the Mughal Emperor as well as other colonising countries to try and take over land. In 1708 the British government decided that they should be running India as well, not just the EIC. They worked together to rule India until 1857 and the Indian <u>Mutiny</u>.
- The Indian Mutiny was when Indian soldiers turned on their British generals and killed them, because they felt they were being treated unfairly e.g. they had lost their pensions and were being forced to use bullets greased in animal fat. After this, the government decided to take all control away from the EIC, and India was ruled as the British Raj.
- Lots of British people went to live in India, either because they were working for the government or because they were soldiers, keeping the population under control.
 Some people went as missionaries (people who try and covert others to their religion).

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The Transatlantic slave trade

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PE COLONY

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1604: The first British people to settle in America arrived

Key events

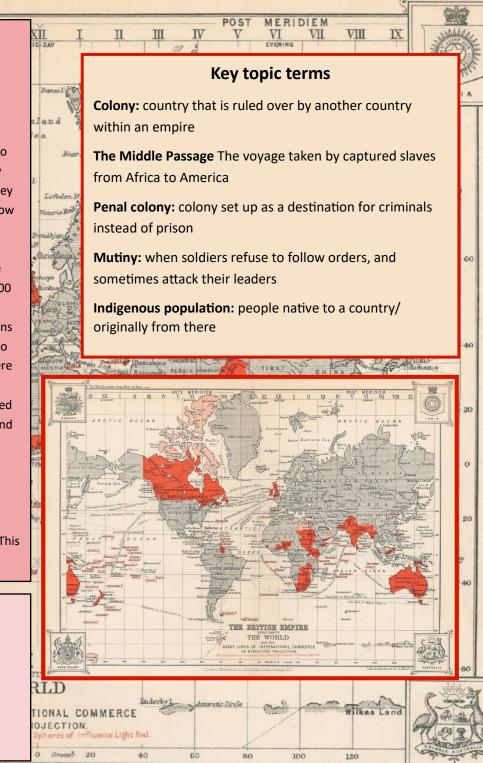
- Cotton was grown in the Southern States of America, but there were not enough people to
 grow it. Traders in Britain traded goods for <u>slaves</u> that had been kidnapped in Africa. They
 sailed these slaves from Africa to the Southern states along the <u>Middle Passage</u>, where they
 were traded for cotton, which was taken back to Britain. The slaves were then used to grow
 the cotton. This was known as the <u>Trade</u> Triangle. The British made lots of money from it.
- In total, about 10 million slaves were taken across the Atlantic between 1700 and 1820. About half of the slaves who set out on the voyage across the Middle Passage died before arriving. Once they arrived the slaves were sold: a healthy young slave would cost £100,000 in today's money.
- Slaves in the USA lived on <u>plantations</u> growing cotton or tobacco. Some of these plantations
 were enormous with hundreds of slaves; other might be small with the master owning two
 or three slaves. The slaves had no rights and were their master's property. Often, they were
 supervised by an overseer.
- Some of the slaves might be their master's servants they were house slaves. Most worked in the fields, growing the crops. Conditions in the Deep South the states of Mississippi and Alabama were particularly bad. Slaves could be cruelly punished by their master or their overseers.
- Slaves could marry and have families, but these families could be split up at any time, particularly when a master died. Many slaves escaped to the North of the USA, where slavery was illegal (no cotton or tobacco was grown there). Sometimes these slaves were recaptured by their masters. Slaves built up a rich cultural heritage, particularly in music. This became the basis for the blues, jazz, rock n roll, and later on rap and hip hop.

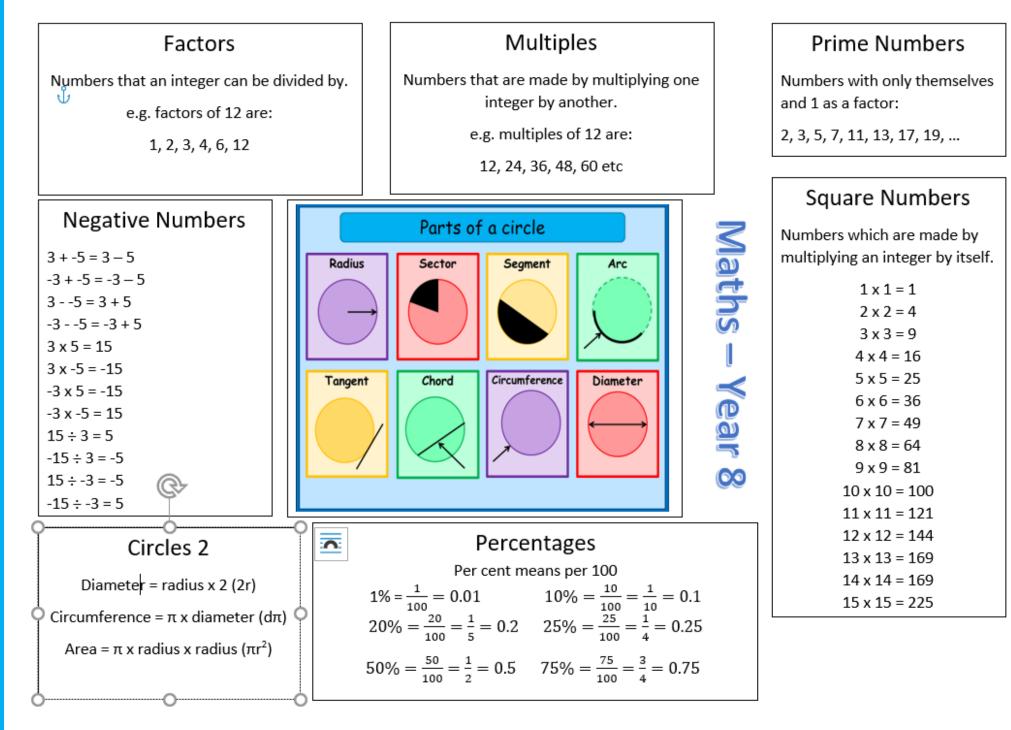
Key history terms

Interpretation: a particular historian's version of what happened in the past.

Cause: a reason why an historical event happened

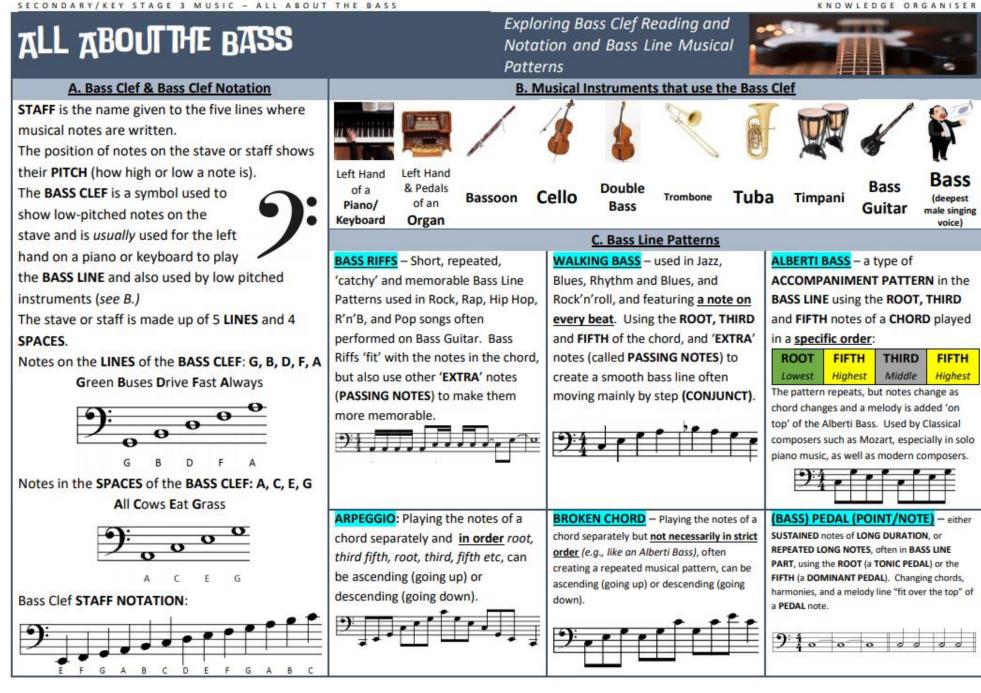
Continuity: the opposite of changing, when something stays the same.





MATHS

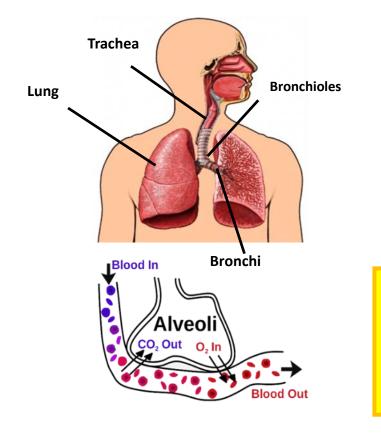


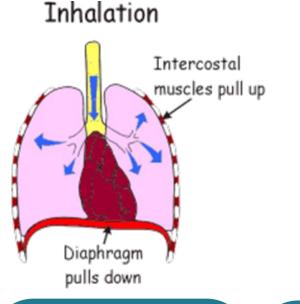


MUSIC

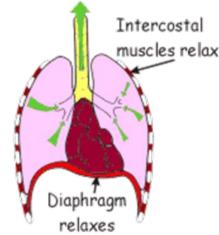
Passage of air into the lungs

- 1. Air enters the body and is warmed as it travels through the mouth and nose.
- 2. It then enters the trachea.
- 3. The trachea divides into two bronchi. One bronchus enters each lung.
- 4. Each bronchus branches out into smaller tubes called bronchioles. Air travels through these bronchioles.





The role of the respiratory muscles in breathing lation Exhalation



Inhalation (Breathing in)

The diaphragm contracts and moves downwards. The intercostal muscles contract and move the ribs upwards and outwards. This increases the size of the chest and decreases the air pressure inside it which sucks air into the lungs.

Exhalation (Breathing out)

The diaphragm relaxes and moves back to its domed shape. The intercostal muscles relax so the ribs move inwards and downwards under their own weight. This decreases the size of the chest and increases the air pressure in the chest so air is forced out of the lungs.

Gaseous (or gas) exchange:

Gas exchange occurs at the alveoli in the lungs and takes place by diffusion. The alveoli are surrounded by capillaries so oxygen and carbon dioxide diffuse between the air in the alveoli and the blood in the capillaries.

<u>Diffusion</u> is the movement of gas from an area of high concentration to an area of low concentration.

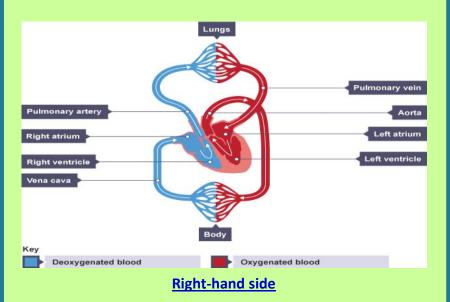
The pathway of blood through the heart

Blood is carried through three different types of blood vessels in the body:

- 1. Arteries
- 2. Capillaries
- 3. Veins

Left-hand side

<u>Oxygenated blood</u> is carried to the heart <u>from the lungs</u> in the pulmonary vein. It goes into the <u>left atrium</u>, through the bicuspid valve and into the <u>left ventricle</u>. The ventricle pumps the blood through the semilunar valve, into the aorta and round the body.



Deoxygenated blood from the body is carried to the heart in the <u>vena cava</u>. It goes into the <u>right atrium</u>, through the tricuspid valve and into the <u>right ventricle</u>. The ventricle pumps the blood through the semilunar valve, into the pulmonary artery and to the lungs.

Structure of the cardiovascular system

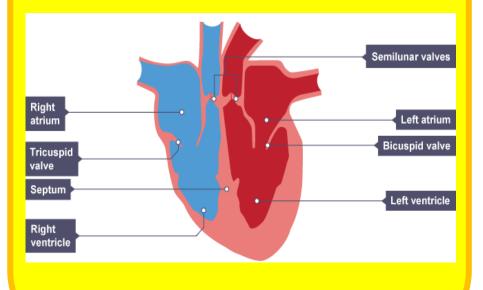
If you clench your hand into a fist, this is approximately the same size as your heart. It is located in the middle of the chest and slightly towards the left.

The heart is a large muscular pump and is divided into two halves - the right-hand side and the left-hand side.

The right-hand side of the heart is responsible for pumping **deoxygenated blood to the lungs.**

The left-hand side pumps **oxygenated blood around the body**.

Each side of the heart consists of an <u>atrium</u> and a <u>ventricle</u> which are two connected chambers.



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Religion and Social Change

	Key Words			
Equality			The state of being banned from one's native country, typically for political reasons. It is a type of punishment	
Prejudice	To hold a pre-judgement about someone. Usually before you know them.	Ahimsa	Means the act of non-violence, and it applies to all living beings including all animals according to many Indian religions	
Discrimination	acting on a prejudice – racism, sexism etc	Segregation	The action or state of setting someone or something apart from others.	
Universal Declaration of Human Rights	A document which outlines human rights. All human beings are born free and equal in dignity and rights.	Oppression	A prolonged unjust and unfair treatment of a society by an authority.	

	Key Ideas			
Ideas of Equality		<u>Religious Views on Equality:</u> 'There is neither Jew nor Gentile, neither slave nor free, nor is there male and female, for you are all one in Christ Jesus.' (Christian View) The Holy Qur'an states that all believers, without distinction, are equal and that only righteous deeds elevate one person above another. (Islamic View)		
Gandhi	 <u>Born:</u> 2nd October 1869 in Porbander <u>Job:</u> Barrister – went to University in England. <u>Religion:</u> Hinduism <u>Influences include:</u> Christianity, Jainism and famous writers like Tolstoy. Died 30th January 1948 – assassination. <u>Key Teachings and Beliefs</u> "I object to violence because when it appears to do good, the good is only temporary; the evil it does is permanent." "There are causes for which I am willing to die but not cause for which I am willing to kill" "An eye for an eye will only make the whole world blind" "We must become the change we want to see in the world" 			

REP

	Key Ideas				
Martin Luther King Jr	Martin Luther King didn't believe in using violence to change things. Instead, he gave powerful speeches and led peaceful protests. Even so, he was arrested and sent to prison 29 times. He never gave up the fight for equal rights, and made a real difference.	<u>'I have a dream' Speech</u> His 'I have a dream' speech was delivered on 28 August 1963 at the Lincoln Memorial in Washington DC to a crowd of about 250,000 people. It was the culmination of the 'March on Washington for Jobs and Freedom' and is a key moment in the Civil Rights movement.	"Darkness cannot drive out darkness; only light can do that. Hate cannot drive out hate; only love can do that." "We hold these truths to be self-evident, that all men are created equal."		
Mother Theresa	Mother Teresa was born on 26 August 1910 in Skopje, North Macedonia - a country to the east of Albania and north of Greece - although she was called Gonxha Agnes at the time. From 1937, she became known as Mother Teresa, but it was a train ride on 10 September 1946 which would change her life forever. It is on this journey that Mother Teresa said she received her "inspiration" to carry out what she described as the work of God, devoting herself to helping people who lived in the slums of Kolkata. (Calcutta) <u>Key Teaching</u> <i>It is not how much we do, but how much love we put in doing it. That makes all the difference.</i>				
Oscar Romero	Oscar Romero was the Archbishop of El Salvador. Romero was increasingly outspoken about injustice by the corrupt military and government in the events leading up to his assassination. Many described Oscar Romero as a 'voice for the voiceless'. He taught that violence could be overcome by Christian love. His sermons were broadcast every Sunday on the radio and were listened to and attended by thousands of people.				



Bottisham Village College

KNOWLEDGE ORGANISER YEAR 8 SCIENCE TERM 3

 Inheritance, Variation and Evolution

WAVES



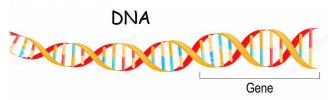
Inheritance, Variation and Evolution Year 8

A. Keywords

-	
Gene	A section of DNA that determines an inherited characteristic.
Characteristic	A feature of the organism.
Allele	A different form of a gene.
Genetic mutation	A change to DNA that can cause disease.
Biodiversity	Is a measure of the variety of all the different species within an ecosystem.
Continuous (variable)	A variable that has values that can be any number.
Categoric (variable)	A variable that has values that are words.
Adaptation	A characteristic that helps an organism survive in its environment.
Species	A group of living things that have more in common with each other then with other groups. This allows them to mate to produce fertile offspring.
Evolution	Theory that the animal and plant species living today descended from species that existed in the past.
Population	A group of organisms of the same kind living in the same place.
Conservation	Protecting a natural environment, to ensure that habitats are not lost.
Captive breeding	Breeding animals in human-controlled environments.
Gene bank	A store of genetic samples, used for research and to try to prevent extinction.
Double Helix	Two strands wound round together in a spiral.
Chromosome	Thread-like structure containing tightly coiled DNA. It contains many genes.
DNA	A molecule found in the nucleus of cells that contains genetic information.

B. DNA

- Spiral shape called a **double helix**.
- DNA contains the genetic information that codes for proteins.



C. Variation

Variation is differences in our physical characteristics. There are two types of variation:

- Genetic variation: caused by the genes you inherit from your parents e.g. eye colour and attached earlobes.
- Environmental variation: physical characteristic caused by your surroundings e.g. scars and tattoos.

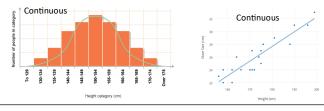
Lots of characteristics are influenced by inherited and environmental factors e.g. height and weight.

F. Working Scientifically

Variation can be measured by completing a survey of sample of the population. This is done by counting a tally of the different features, or dividing measurements up groups.

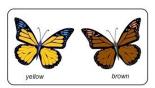
Once counted a graph of the data can be plotted. If the data is categoric then a bar chart should be plotted that separates each category.

If the data is continuous then either a scatter graph should be plotted for each piece of data or a histogram of the different tallies which should produced a 'hill-shaped' curve.



D. Natural Selection

Process by which species change over time in response to environmental changes and competition for resources. The organisms with the characteristics that are most suited to the environment survive and reproduce, passing on their genes.

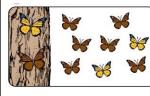


1. Variation. There is genetic variation within a population meaning some organisms have different characteristics.

2. Some of the organisms are better adapted for survival.



"Survival of the fittest."



3. The organisms that survive reproduce and pass on their genes so the offspring are better adapted to survive.

Natural selection occurring over **many years** causes evolution of a species and sometimes the formation of a new species.

E. Biodiversity and Food Security

Biodiversity is important because it helps to maintain populations. If there is more variation within a species then it is more likely some will survive an environmental change and prevent the species from becoming extinct.

Biodiversity can be maintained by:

- Conservation projects.
- Captive breeding.
- Gene banks.

Maintaining biodiversity is vital in ensuring food security as it means:

- Insects are protected so plants are pollinated.
- Fish are protected so overfishing does not occur.





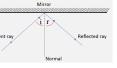
Waves Year 8

A. Keywords.

Concave	A lens that is thinner in the middle and that spreads out light rays.
Convex	A lens that is thicker in the middle and that bends light rays towards each other.
Absorbed	When light is absorbed by an object, the energy is shared amongst the atoms, often resulting in heating.
Transmitted	Light is able to travel through an object.
Specular reflection	Reflection from a smooth surface. Follows the law of reflection.
Diffuse reflection	Reflection from a rough surface. All rays follow the law of reflection individually.
Angle of incidence	Angle between the normal, and the incident ray (the ray of light from the light source).
Angle of reflection	Angle between the normal, and the reflected ray (the ray of light reflecting away from the surface)
Ionisation	The removal of an electron from an atom by high energy waves.
Normal line	An imaginary line at 90° to the surface of the object.

B. Working Scientifically

Equipment—we need a ray box to give out light, a slit to make this a



thing beam, a plane mirror, a glass block, and a protractor.

<u>Method</u>—this needs to be set of instructions that somebody else could follow to carry out the experiment. It should tell them what to change, and what to measure, and how many times to repeat the experiment.

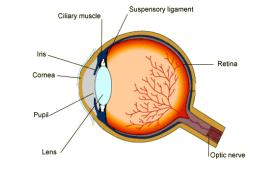


Refraction is when a light ray changes direction as it moves from medium to another.

An example of this in everyday life is with lens. As the light travels from the air and through the solid lens it changes direction. This could be in a microscope, a camera or even our own human eye.

E. The Eye

The eye detects light emitted or reflected off objects which then triggers nerve impulses to the brain to create an image we can see.

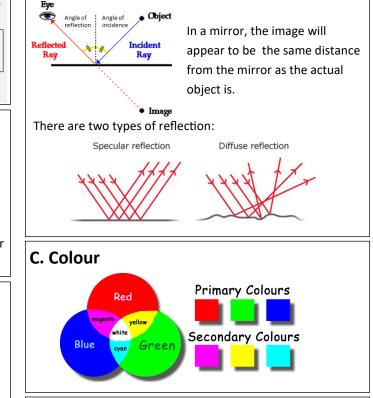


This diagram shows how light is refracted as it passes through the lens and hits the retina which triggers the nerve impulses to got to the brain.

C. Reflection

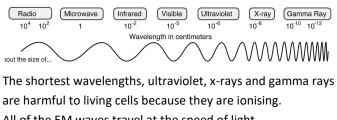
Reflection is the scientific term for light "bouncing off" and object. Light can also be **absorbed** by the object, or

When light reflects, it **always** follows the law of reflection; the angle of incidence is equal to the angle of reflection.



E. The Electromagnetic Spectrum

The electromagnetic spectrum shows the wavelengths of different wave types.



All of the EM waves travel at the speed of light, 300,000,000 m/s

