

# Knowledge Organisers

Term 1 and 2 Year 7

# **Contents**



How to revise



Flashcards



 $Mind\, maps$ 



English



Maths



Science



DT

PΕ





Languages



History



Geography



R.S.



Music



Art



Drama



ComputerScience

# How to use a knowledge organiser – step by step guide

	Look, Cover, Write, Check	Definitions of Key Words	Flash Cards	Self Quizzing	Mind Maps	Paired Retrieval
Step 1	Look at and study a specific area of your KO.	Write down the key words and definitions.	Use your KO to condense and write down key facts or information onto flash cards.	Use your KO to create a mini quiz. Write down your questions using your KO.	Create a mind map with all the information you can remember from your KO.	Ask a friend or family member to have the KO or flash cards in their hands.
Step 2	Cover or flip the KO over and write down everything you can remember.	Try not to use your KO to help you.	Add pictures to help support. Then self-quiz using the flash cards. You could write questions on one side, and answers on the other!	Answer the questions and remember to use full sentences.	Check your KO to see if there are any mistakes on your mind map.	They can test you by asking you questions on different sections of your KO.
Step 3	Check what you have written down. Correct any mistakes in green pen and add anything you have missed. Repeat.	Use your green pen to check your work.	Ask a friend or family member to quiz you on the knowledge.	Ask a friend or family member to quiz you using the questions.	Try to make connections, linking the information together.	Write down your answers,

# How to revise

#### **Successful Learning Takes Place Over Time**

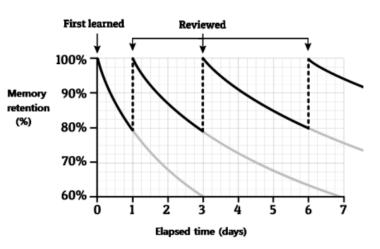


It's rare for anyone to be completely comfortable with something they learn for the first time. This could be a new piece of music, dance move, language or chemistry. We all have to practice. In most instances, the aim is to be at your optimum on the day it matters, e.g. the performance, raæ or exam. Everything leading up to this point is part of the process of improving. It's about the long-term rather than the short-term, which also means there are no quick fixes. During this period, it's okay to make mistakes; it's okay to feel frustrated. What matters is what you do about it.

#### Space out your learning on a subject



Spacing out your learning over time is far more effective than last-minute cramming. This is based on research into how we forget and how we remember. The speed at which we forget something will depend on many factors such as the difficulty of the material, how meaningful it wasto us, how we learned it and how frequently we relearn or remember it. The last factor tells us that when we learn something for the first time, we need to review it quickly afterwards. The more times we force ourselves to remember something, the longer the gap between reviews, which the diagram below illustrates nicely. The Leitner system and Cornell Notes mentioned earlier provides a wonderful way of a chieving this, but the principle applies to all of the learning strategies mentioned in this booklet



# **Revision strategies**

#### List It



This is a simple free recall task that is very versatile. It can feel challenging, but this is a good thing, and it provides clear feedback on what you do and don't know. Choose a topic, set yourself a time limit and...

- List as many keywords as you can
- List as many facts as you can
- List as many key events/quotes/individuals as you can
- List as many causes of X as you can
- List as many consequences of Y as you can

#### Flashcards



Flashcards have the potential to be a powerful learning aid. However, how successful this is will depend on the thought you put into making them in the first place and then how they're used. It's very important to remember that they're for testing, not summarising

## Mapping



Mapping is a brilliant way of organising and learning information, demonstrated on various pages in this booklet. It helps you break down complex information, memorise it, and see the connections between different ideas.

## **Self-testing**



Research has shown that every time you bring a memory to mind, you strengthen it. And the more challenging you make this retrieval, the greater the benefit. Self-testing improves the recall of information, transfer of knowledge and making inferences between information. Equally, there are many indirect effects, such as a greater appreciation of what you do and don't know, which helps you plan your next steps.

# **Flashcards**



Flashcards are small sheets of paper or card with matching pieces of information on either side. They are a useful tool for learning facts and allow you to quickly check whether you have remembered something correctly.

## When making and using flashcards:

Do: ✓	make flashcards quicklyput a single piece of information of each flashcard.	Don't:  Xs pend more time making flashcards than actually using them.  Xput lots of information onto each	1861	groynes	osmosis	Where is the pharmacy?
✓	s ort your flashcards according to your confidence with them (see below)test yours elf on the flashcards from memory.		Pasteur published his paper about germ theory.	A low wall on the coastline which slows longshore drift	Net movement of water from a high concentration to low concentration across a partially permeable membrane	Où est la pharmacie?
		Xonlyreadthroughflashcards.			<u> </u>	

## How to make flashcards:

- You can by a set of flashcards or use a free website such as Quizlet.
- Find the information you want to put onto flashcards using your existing revision resources (e.g. a knowledge organiser).
- •Fold a piece of A4 paper into 10.
- •Write the questions on the top half of the paper.
- •Write the answers on the bottom half of the paper.
- •Cut the paper along the dotted lines shown here.
- Fold the strips of paper so that the writing is on either side.

Definition 1	Definition 2	Definition 3	Definition 4	Definition 5
Answer 1	Answer 2	Answer 3	Answer 4	Answer 5

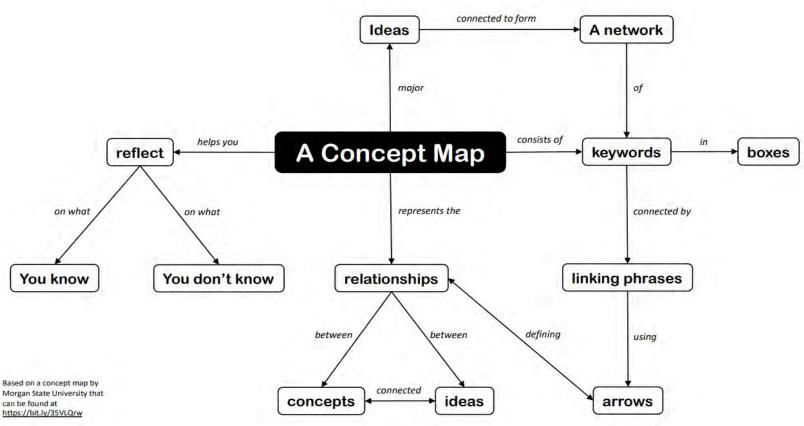
## How to use flashcards: Test yourself using the flashcards. 2. As you test yourself, sort the flashcards into up to five piles according to how confident you are with the content. Put the piles into numbered envelopes (1-5). 4. Test yourself on the different piles on different days (see below): More confident Pile 1 Pile 2 Pile 3 Pile 4 Pile 5 I have absolutely I know this off by no idea! heart. Practise every **four** days. Practise every **other** day. Practise every **five** days. Practise **every** day. Practise every **three** days. 5. As you test yourself on the different piles, move the cards into different piles as you become more confident. Over time

## **Useful resources:**

www.quizlet.com – This free website allows you to quickly create flashcards which you can print, use on a computer, or use on your phone.

# **Mapping**







# Probability

1	The probability of an impossible event is	0
2	The probability of a certain event is	1 or 100%
3	The probability of an even chance is	½ 0.5 or 50%
4	The probability of rolling a 5 on a dice is	$\frac{1}{6}$
5	The probability of rolling an even number on dice is	$\frac{3}{6} = \frac{1}{2} = 0.5 = 50\%$
6	The probability of rolling a number less than 6 on <u>a</u> dice is	$\frac{5}{6}$
7	P(choosing a red) means	Probability of choosing a red
8	Never write probabilities as	ratio
9	Mutually exclusive outcomes	Cannot happen at the same time
10	The probabilities of mutually exclusive outcomes always sum to	1 or 100%
11	P(rain) = 0.3 What is the <u>p(</u> not rain)	1-0.3=0.7
12	P(snowing) = 0.03 What is the <u>p(not snowing)</u>	1-0.03 = 0.97
13	$p(\text{win}) = \frac{4}{7}$ $\underline{p}(\text{not win}) =$	$1 - \frac{4}{7} = \frac{3}{7}$
14a	Work out the p(red)	1 - (0.3 + 0.4)
144	Colour         red         blue         Green           Probability         0.3         0.4	1 - 0.7 = 0.3
14b	If I choose 200 balls, how many would you expect to be green?	$0.4 \times 200 = 80$ green expected

# Sample Space Diagrams

1	Two coins are flipped, what is the probability of throwing HH?	7					ī	HH HT TH TT 1
ī	Here is a sample space diagram of r	olli	ng t		Č.	-	findin	g the sum (adding) their scores
		2	3	4	0	9	7	
2	2	ı	ĸ	¥	ā	y	·y·	
		1 7	7	7 /4	A.	10	10 11 12	
2a	How many outcomes are there?							6 x 6 = 36
2b	p(scoring a 3)							$\frac{2}{36}$
2c	p(scoring a 7)	1						$\frac{6}{36}$
Ī	P(scoring a prime number)							Primes: 2,3,5,7,11 15 36

# Factors, Multiples and Primes

1	Factors of 16 are:	16 1 x 16 2 x 8 3 x 4 x 4
2	Which sentence is correct?  5 is a multiple of 15 15 is a multiple of 5	15 is a multiple of 5 because 15 = 5 x 3
3a	A prime number is	A whole number with only two factors, one and itself.
3b	List the first 10 prime numbers	2, 3, 5, 7, 11, 13, 17, 19, 23, 29
4b	1 is not a prime because	It has only one factor: 1.  A prime has exactly two factors.
5	15 is not a prime because	It has four factors: 1, 3, 5, 15.  A prime has exactly two factors.
6	Product means	Multiply
7	If it says "write 40 as a product of its prime factors the method is	10 4 5 2 5 2 Answer: 2 x 2 x 5 x 5 Index form: 2 <sup>2</sup> x 5 <sup>2</sup>
7	Express 30 as a product of its prime factors	$30 = 2 \times 3 \times 5$
8	Write $2 \times 2 \times 2 \times 3 \times 5 \times 5$ in index form	$2^3 \times 3 \times 5^2$
9	First three multiples of 10:	10, 20, 30
10	Which sentence is correct? 2 is a multiple of 8 8 is a multiple of 2	8 is a multiple of 2 because $8 = 2 \times 4$
11	How to spot a multiple of 10	It ends in 0
12	How to spot a multiple of 5	It ends in 0 or 5
13	How to spot a multiple of 2	It is even, it ends in 0, 2, 4, 6 or 8

# HCF and LCM

1	HCF stands for	Highest Common Factor
2	LCM stands for	Lowest Common Multiple
3	Find the LCM of 6 and 10	6: 6, 12, 18, 24, 30, 36, 10: 10, 20, 30 The LCM of 6 and 10 is 30
4	Find the HCF of 12 and 30	Factors of 12 1, 2, 3, 4(6)12  Factors of 30: 1, 2, 3, 5(6)10, 15, 30  The HCF of 12 and 30 is 6
S	Imagine you are finding the HCF and LCM of 60 and 84. You have written them both as a product of primes using factor trees so that $60 = 2 \times 2 \times 3 \times 5$ $84 = 2 \times 2 \times 3 \times 7$ What would this look like in a Venn diagram?	60 5 2 2 3 7
6	Using the Venn diagram above. How would you find the HCF of 60 and 847	Multiply the numbers in the intersection $2 \times 2 \times 3 = 12 \text{ (HCF)}$
7	Using the Venn diagram above. How would you find the LCM of 60 and 84?	Multiply the numbers in the union (all of them) $2 \times 2 \times 3 \times 5 \times 7 = 420$ (LCM)



# Fraction Skills

1	$\frac{1}{8}$ of 40	40 ÷ 8 = 5
2	$\frac{3}{8}$ of 40	$40 \div 8 = 5$ $5 \times 3 = 15$
3	To add fractions, you first need	A common denominator
4	To subtract fractions, you first need	A common denominator
5	$\frac{3}{5} + \frac{1}{5} =$	4 5
6	$\frac{3}{5} - \frac{1}{5} =$	2 5
7	$\frac{3}{5} + \frac{1}{4} =$	$\frac{12}{20} + \frac{5}{20} = \frac{17}{20}$
8	$\frac{3}{5} - \frac{1}{4} =$	$\frac{12}{20} - \frac{5}{20} = \frac{7}{20}$
9	Which is greater: $\frac{1}{3} or \frac{1}{4}$ ?	$\frac{1}{3}$
10	Which is greater: $\frac{3}{10} or \frac{7}{10}$ ?	7 10
11	Steps to put fractions in order	A common denominator     Compare the numerators
12	Ascending order means	Smallest to biggest

# Negative Numbers

1	Put these numbers in ascending order: 4, -5, 0, 2, -3	-5, -3, 0, 2, 4
2	-4 - 3 =	-7
3	+4=0	-4
4	43 =	+7
5	-4 × -3 =	+12
6	-4 × 3 =	-12
7	$-20 \div -4 =$	+5
8	20 ÷ -4 =	-5
9	$-4^2 =$	-16
10	$(-4)^2 =$	= -4 ×-4 = +16 (squaring a negative = positive)
11	Subtraction is the same as	addition of the opposite
12	-34 =	-3 + 4 = +1
13	-3 + - 4 =	-3 - 4 = -7
14	$(-4)^3 =$	-64 (cubing a negative = negative)

# Order of Operations

ì	Draw the pyramid of order of operations	
2	Calculations on the same row of the pyramid are done.	Left to right
3	10-5+2	10 - 5 = 5 5 + 2 = 7
4	12 ÷ 3 × 5	$12 \div 3 = 4$ $4 \times 5 = 20$
5	Set your working out by	Writing the answer to the calculation that takes priority directly underneath
6	60 - 10 × 5	60 - 10 × 5 (multiply comes first) 60 - 50 (50 under 10 x 5) = 10
7	Insert bracket to make the calculation true $5 + 3 \times 10 \div 2 = 17.5$	$(5+3\times10)\div2=17.5$
8	Insert bracket to make the calculation true $5 + 3 \times 10 \div 2 = 20$	$5 + (3 \times 10 \div 2) = 20$
9	Insert bracket to make the calculation true $5 + 3 \times 10 + 2 = 40$	$(5+3) \times (10+2) = 40$



# Basic Algebra

1	2a means	2 x a
2	$\frac{a}{10}$ means	a ÷ 10
3	P <sup>2</sup> means	p x p_(p squared)
4	Simplify a + a + a	3a
5	Simplify 5a + 2a	7a
6	You cannot simplify 5a + 2 because	They are not like terms
7	5a + 2 + 3a + 10	Collect the <u>a's</u> and integers 8a + 10
8	Simplify 5a + 2b + 2a	7a + 2b
9	Simplify $5a + 2b - 2a$	3a + 2b (the minus belongs to the 2a and 2b is positive)
10	Simplify 5a −2b − 2a	3a – 2b (the minus belongs to the 2a and 2b is negative)
11	Simplify a x a x a	a <sup>3</sup>
12	Simplify 5 x a x 3 x b	Multiply numbers first 15ab
13	Simplify 5 $\times$ $a \times 3 \times a$	Multiply numbers first $a \times a = a^2$
		15a <sup>2</sup>
14	3a + a	4a
15	3a x a	3a <sup>2</sup>
16	3a x 2b	6ab
17	Simplify $\frac{15a}{3}$	Divide 15 by 3 5a
18	Simplify $\frac{a}{a}$	Anything divided by itself is 1
19	Simplify $\frac{15a}{3a}$	$\frac{15d}{3a} \qquad 15 \div 3 = 5$
20	Simplify $\frac{a \times a \times a \times b \times b}{a \times a \times b}$	$\frac{a \times a \times a \times b \times b}{a \times a \times b} \qquad \frac{a \times b}{1} = ab$
21	Simplify $\frac{a \times a \times b}{a \times a \times a \times b \times b}$	$\frac{\int (x \cdot x \cdot x) dx}{\int (x \cdot x) dx \cdot x} = \frac{1}{axb} = \frac{1}{ab}$
22	15ab + 2ab - 3a	Collect ab terms only 17ab – 3a
23	$5x^2 + 3x - 2x^2 + 6x$	Collect $x^x$ terms separately to x terms $3x^2 + 9x$ ( $2x^2$ term is negative, all others positive)

# Algebraic Expressions

1	An expression is	A collection of letters/numbers e.g. $5n \pm 10 - 3n \pm 4m$
2	5 more than y	y + 5
3	5 less than y	y-5
1	Y less than 5	5 – y
5	5 lots of/multiplied by y	5y
6	y divided/shared into 5	<u>y</u> 5
	Ben is x years old	Ben = x
7	John is 5 years older	$\mathbf{John} = \mathbf{x} + 5$
	Alice is twice John's age	Alice = $2(x - 5) = 2x + 10$
8	Write an expression for the sum of Ben. John and Alice's age	x + x + 5 + 2x + 10 = 4x + 15
9	Write an expression for the perimeter	4x + 18
10	There are x strawberries in a pack and y bananas in a bunch Write an expression for 5 packets and 3 bunches	5x + 3y



# Substitution

1	Evaluate means	Write your answer as a number (no letters)
2	Substitute means	Replace the number with a letter
3	Evaluate 5a when a = 2	5a means 5 x a 5 x 2 = 10
4	Evaluate $\frac{a}{3}$ when $a = 12$	$\frac{a}{3} \text{ means } a \div 3$ $12 \div 3 = 4$
5	If a = 3 and b = 5  Evaluate 10ab	10 x 3 x 5 = 150
6	If a = 3 and b = 5 Evaluate 4a – 2b	$4a = 4 \times 3 = 12$ $2b = 2 \times 5 = 10$ 12 - 10
7	If b = 5 Evaluate 3b <sup>2</sup>	Squaring comes first $5^2 = 25$ $25 \times 3 = 75$
8a	The cost C of hiring a boat for h hours with an initial payment is is given by the formula C = 10+3h  What is the cost of the initial payment?	£10
8b	The cost C of hiring a boat for h hours is given by the formula C = 10+3h  What is the hourly cost?	£3.00 an hour
8c	The cost C of hiring a boat for h hours is given by the formula C = 10+3h  What is the cost of hiring a boat for 4 hours?	h = 4 $10 + 3 \times 4$ (multiply first) = 10 + 12 = £22.00

# Expanding Brackets

1	Expand means	Multiply out all terms inside by term outside	
2	Francis (201 + 2)	Multiply 2y and 3 by 5	
2	Expand $5(2y+3)$	10y + 15	
3	Expand 5(2y - 3)	Don't miss the negatives	
	Expand 5(2y - 5)	10y - 15	
4a	Expand $5(2y - 3 + 4p)$	3 terms in the bracket 3 multiplications	
4a	Expand $3(2y - 3 + 4p)$	10y - 15 + 20p	
41	F 1 F(2a) 2   4a)	Negative term on the outside changes the signs	
4b	Expand $-5(2y-3+4p)$	-10y + 15 - 20p	
5	Expand $\underline{y}(y + 5)$	$y^2 + 5y$	
		Multiply out	
6	Expand and simplify means	Collect like terms	
	Expand and simplify $5(2y + 3) - 10$	Multiply out the bracket only and then -10	
7		10y + 15 - 10	
		Collect like terms (15 – 10)	
		10y + 5	
8	Expand and simplify $5(2y + 3) + 2(y - 5)$	Multiply out brackets separately	
		10y + 15 + 2y - 10	
٥		Collect like terms	
		12y + 5	





Unit 1

Key Vocabulary				
Narrator The story-teller	Setting When/where a story is set			
Protagonist The main character	Atmosphere The mood or tone of a piece of writing			
Antagonist A character who opposes the protagonist	Acceptance Being received as adequate or valid			
First person narrator The story is told from the perspective of a character. Uses the pronoun 'I'	Context historical information about when/where a text is set/written			
Identity What makes you, you.	Structure How something is organised into its parts			
Exposition the beginning of a story where the characters and setting are introduced	Imagery When words or phrases allow the reader to imagine what is described.			



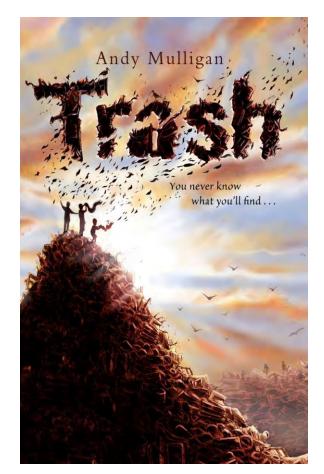
Language Features		
<b>Tension</b> A feeling of unease in a text	Foreshadowing when the writer hints at a later event in the story	
Perspective A particular attitude or opinion	Repetition Where one word or phrase is used more than once	
Rhetorical Questions Questions which do not require an answer	Pronouns A word that can replace a noun in a sentence	
<b>Dialogue</b> speech between characters	Figurative language Words and phrase that allow the reader to imagine the scene e.g. similes, metaphors	



#### Context of Trash

Andy Mulligan – Andy is a prolific author writing radio plays and screenplays as well as prose-fiction. He has won The Guardian Children's Fiction prize and been shortlisted for the CILIP Carnegie Medal. His books have been translated into thirty-two languages. Andy worked as a theatre director initially, before travels in Asia prompted him to retrain as a teacher. He has taught English and drama in India, Brazil, Vietnam, the Philippines and the UK. He now lives in England and is writing full time. Andy travels widely, visiting schools around the world.

The Philippines and Stormy Mountain - Set in a developing country (similar to the Philippines), loosely based on upon a real dumpsite "Smokey Mountain" in Manila, the capital of the Philippines. -Smokey Mountain took up 71.6 acres of land. -On the border of the site is Manilla's main slaughterhouse. - For 40 years the dumpsite had been the principal rubbish tip for all Manila's metropolitan rubbish.







Unit 1

Characters		
R a phael	Raphael Fernandez is a "trash or dumpsite boy."	
Gardo	A friend of Raphael who lives on the Behala dumpsite in Manila	
Rat (Jun)	A parentless child who lives in the sewers. He helps Raphael and Gardo work out clues about the missing money	
Olivia	He is the sixty-three-year-old administrator of the Pascal Aguila Mission School.	
Gabriel Olondriz	He is a political prisoner who was imprisoned for crimes he did not commit.	
Senator Zapanta	He is a corrupt politician who has had money stolen from him.	
Father Julliard	He is the sixty-three-year-old administrator of the Pascal Aguila Mission School.	
Jose Angelico	The man who stole the money from Zapanta.	

#### Plot

Raphael Fernandez is a "trash or dumpsite boy." Along with his friend, Gardo, Raphael rummages through the Behala dumpsite every day, hoping to find treasures to sell. One day, the boys find a small leather bag that turns their lives upside down. The bag contains a wallet, a folded-up map of the city, a key, eleven hundred pesos, a few old papers, photos, and an ID card. When they look at the ID card, they see that it belongs to a man named Jose Angelico. More importantly, there are photos of Jose and a little girl, presumably his daughter, inside the envelope. Soon, the police come looking for the bag, but Raphael lies to them about his discovery. Raphael leaves the next day with Gardo. Both boys decide to take the bag and its contents (minus the money) to a friend (Rat) for safekeeping. For a hundred pesos, Rat agrees to take Gardo and Raphael to Central Station: there's a locker outside of Platform Four, which the key will open. The boys eventually make their way to the station. After unlocking the right locker, Rat retrieves a brown envelope. Inside is a letter with an address. The name above the address is Gabriel Olondriz. Meanwhile, the address is Prisoner 746229, Cell Block 34K, South Wing, Colva Prison. There is also a slip with numbers in the envelope. Apparently, Jose Angelico was arrested for robbing Senator Zapanta of six million dollars. Before he was arrested, Jose discarded the leather bag. As for Gabriel Olondriz, he is the father of Dante Jerome; Jerome was the man who adopted Jose when the latter was a child. Meanwhile, Raphael is later arrested and interrogated. From Gabriel Olondriz, the boys learn that the numbers on the slip of paper are a type of Bible code. Raphael, Rat, and Gardo eventually crack the code and are led to the Angelico family grave site in the city's cemetery. Will they find the missing money there?

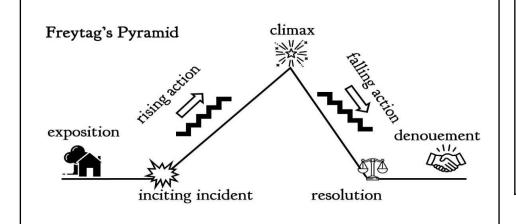


# English

Unit 1

Types of Text				
Diary Entry	Formal Letter			
A summary of the day's events.	Starts with an address and a			
Written in first person. It starts	salutation of 'Dear'. It should use			
with 'Dear Diary'	formal vocabulary and expressions			
News Article	Speech			
It reports on recent events using	It is written to persuade or to			
eye witness accounts. It begins	present an argument. It contains a			
with a headline and subheading	range of rhetorical devices.			

#### Story Structure



## Themes in Trash

**Corruption** — The police and politicians work for the wealthy rather than for the wellbeing of the people. Of course, there are people who genuinely want to help like charity workers. There are family members who are willing to stretch their resources to include another mouth. Ultimately, though, the gap between the poverty the children experience and the wealth of the elite is the basis of the corruption.

Poverty – The contrast between the three dumpsite boys and the wealthy people that live in the same area is startling. They sort literal trash to find enough money to scrape by while the wealthy dine on delicacies and live in palatial estates. Two of the dumpsite boys live with extended family who can barely afford to keep them. One of the dumpsite boys, Rat, has no family at all; instead, he lives alone in a slum and derives his nickname from the rodents that occupy his space. These are young boys who don't have a lot of other options to pull themselves out of poverty. It's clear that the wealthy elite could make a real difference for them —and yet they choose not to.

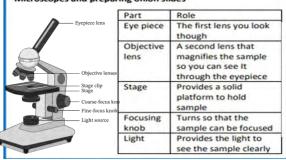


# Cells and organisation

#### **Key words**

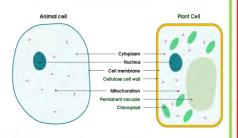
Key word	Definition
Cell	the smallest structural and functional unit of an organism
Tissue	a group of specialised cells that have a similar structure and function
Organ	part of an organism made up of tissues that has a specific vital function
Microscope	an instrument used for viewing very small objects
Cell membrane	Controls the movement of substances into and out of the cell
Nucleus	Contains genetic material, which controls the activities of the cell
Vacuole	Filled with cell sap to help keep the cell turgid and supports the cell
Chloroplast	Contain chlorophyll, which absorbs light energy for photosynthesis
Cytoplasm	Most chemical processes take place here, controlled by enzymes Cell wall Strengthens the cell
Diffusion	The movement of particles from a high concentration to a low concentration until they are evenly spread
Uni-cellular	consisting of a single cell e.g. yeast
Multi-cellular	Consisting of lots of cells e.g. humans
Ribosome	Protein synthesis happens here
Mitochondria	Most energy is released by respiration here

#### Microscopes and preparing onion slides



#### Animal and plant cells

Organelle	Animal	Plant
Nucleus	Yes	Yes
Cytoplasm	Yes	Yes
Cell membrane	Yes	Yes
Cell wall	No	Yes
Chloroplast	No	Yes
Vacuole	No	Yes
Mitochondria	Yes	Yes
ribosome	Yes	Yes



#### Cells to organ systems

Cells → tissue → organ → organ system Simplest structural and functional unit of an organism A group of similar cells Tissue working together Organ A group of similar tissues working together A group of different organs Organ that work together system A living thing that organism performs the seven life processes

# Specialised cells

Specialised cell	Location	diagram	Role	Adaptation
Red blood cell	Animal – blood		Transport oxygen around the body	Biconcave shape and Large surface area to allow oxygen diffusions Haemoglobin to bind with oxygen No nucleus
Sperm cell	Animal – testies	TIT	To join with female egg cells in fertilisation.	Long tail for swimming Head containing enzymes to get into egg cell Mitochondria for energy
Egg ccell (Ovum)	Animal – ovary		To join with male sperm cell in fertilisation and then provide food for embryo	Large Contain food store
Nerve cell	Animal – body	* 2	To carry impulses to different parts of the body	Long Connections are each end Can carry electrical signals
Ciliated Epithelial cell	Animal – respiratory track and fallopian tube	D7II	Move mucus from one place to another. In the respiratory tract the move mucus containing microbes and dust out.	Has a thing later of tiny 'hairs' called cilia
White blood cell	Animal – blood		Destroys invading pathogens	Releases antibodies and antitoxins. Engulfs and digests pathogen cells
Palisade cell	Plant - leaves	382	To absorb sunlight for photosynthesis	Large Surface area Lots of chloroplasts
Root hair cell	Plant - roots		To absorb water and minerals	Long finger like protrusions to provide large surface area

#### Unicellular

- Simple organisms
- Small
- One type of cell
- Rely on diffusion to exchange substances

#### Multicellular

- Complex organisms
- Large
- Lots of different types of cell

#### Preparing an onion slide

METHOD: Cut out a small piece of onion. Peel off the inner surface (membrane). Put the piece of membrane flat on a slide and add two drops of iodine solution. Gently lower the cover slip onto the slide using the forceps. Place the slide onto the microscope. Focus using focusing knobs.



# Particle theory

#### **Particle Theory**

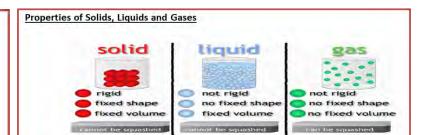
- All matter is made up of particles.
- Particles are found in all three states of matter. Solids, liquids and gases. The properties of each state are summarised below.







State of matter	Arrangement	Movement
Solid	Regular	Vibrate around a point. Cannot move from place to place
Liquid	Irregular but particles are still touching	Particles can slide over one another
Gas	Irregular, random arrangement. Particles are far apart (not touching)	Move quickly, in all directions.

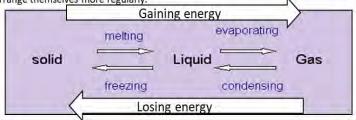


- -Solids are rigid, have a fixed shape and a fixed volume because the particles are held together by strong bonds and arranged regularly.
- -Liquids are not rigid and have no fixed shape, meaning they can flow to fill their container. This is because the **bonds are weaker**, so the particles can move. However, there is a fixed volume because the particles are **still close together**.
- -Gases are not rigid, have no fixed shape or fixed volume because there is **so much space** between particles and the bonds holding them together are **broken**.

#### **Changes of State**

Changes of state take place when the particles gain or lose energy.

- When energy is applied, particles gain energy, move faster and move further apart.
- When energy is lost, particles become closer to each other, move slower and arrange themselves more regularly.





# Particle Theory

## **Diffusion and Factors Affecting Diffusion**

- -Diffusion is the movement of particles from a higher concentration to a lower concentration.
- -Diffusion will stop when particles have spread themselves evenly.
- Diffusion occurs in liquids and gases but not in solids, because particles in a solid are not free to move.



Diffusion

There are 2 factors which affect the rate of diffusion:

- Temperature: when temperature increases, particles gain more energy. They can then move and spread out at a faster rate.
- **2. Concentration**: when concentration increases, the rate of diffusion increases because there are more particles.

Key Terms	Definitions
Key Terms	Definitions
Melting	Change of state from solid to liquid
Freezing	Change of state from liquid to solid
Evaporation	Change of state from liquid to gas
Condensation	Change of state from gas to liquid
Regular	When particles are arranged in a fixed pattern
arrangement	e.g in solids
Irregular	When particles are not arranged in a fixed pattern.
arrangement	
Diffusion	Movement of particles from a higher
	concentration
	to a lower concentration
Rate	How fast an event is happening
Concentration	The number of particles in a known volume
Particles	All matter is made up of tiny particles



# Separation

KEYWORD	DEFINITION	
Chromatogram	An image obtained from a chromatogram.	
Chromatography	A technique to separate mixtures of liquids (often coloured) that are soluble in the same solvent.	
Dissolve	The complete mixing of a solute with a solvent to make a solution.	
Distillation	A technique that uses evaporation and condensation to obtain a solvent from a solution.	
Filtrate	The liquid or solution that collects in the container after the mixture has passed through the filter paper.	
Filtration	A way of separating pieces of solid that are mixed with a liquid or solution by pouring through filter paper.	
Insoluble	Cannot dissolve in a given substance.	
Mixture	A mixture is made up of two or more pure substances that are mixed (not chemically joined) together.	
Pure substance	A single material with no other substances mixed with it.	
Residue	The solid that collects in the filter paper during filtration.	
Saturated solution	A solution in which no more solute can dissolve.	
Solubility	The maximum mass of solute that dissolves in a certain volume or mass of solvent.	
Solubility curve	A graph showing the change in solubility of a substance with temperature.	
Soluble	Can dissolve in a given solvent.	
Solute	The solid or gas that is dissolved in a liquid.	
Solvent	A substance (normally a liquid) that dissolves another substance.	

CHROMATOGRAPHY; It is often used when the dissolved substances are coloured (inks, food colourings and plant dyes). It works because some of the coloured substances dissolve in the solvent used better than others (it is attracted more strongly to the water than the paper), so they travel further up the paper.

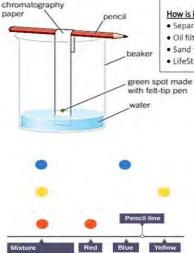
- A pure substance will only produce one spot on the chromatogram during paper chromatography.
- Two substances will be the same if they produce the same colour of spot, and their spots travel the same distance up the paper.

#### How is it useful?

- Identifying food nutrients; compare the amounts of vitamins in different food types.
- · Testing the purity of a sample.
- Forensic science; finger printing and DNA analysis.
- Checking the level of pesticides, herbicides and contaminants in food and drinking water.

DISSOLVING During dissolving, particles of solvent (water) collide with particles of solute (sugar). They surround the particles of solute, gradually moving them away until the particles are evenly spread through the solvent.

For each solute and solvent, there is a limit to the mass of solute that will dissolve in a particular volume of the solvent. When no more solute will dissolve, we say that the solution is a saturated solution.



FILTRATION; You can separate sand and water by pouring the mixture into filter paper. Water passes through the filter paper (filtrate) as water particles are smaller than the tiny holes in the filter paper. The grains of sand (residue) stay in the filter paper as they are bigger than the tiny holes.

#### How is it useful?

- · Separates coffee solution from ground-up coffee.
- · Oil filters in cars.
- · Sand filters to make water safe to drink.
- · LifeStraw; fibres filter the water removing bacteria and parasites.

# How can we get drinking water from seawater? Tremorater Soll water Considerater Vestor in Sall water

conical flask

filtrate (water)

- On heating, water in the salt solution boils, forming steam. Salt does not boil, because its boiling point it much higher.
- Steam travels through the condenser and cools down to form liquid water.
- · Liquid water drips into the beaker.

#### How can we separate salt from seawater?

Standard reference material

By evaporation → Pour some seawater into an evaporating dish. Heat over a water bath until some of the water has evaporated. Leave in a warm place for the rest of the water to evaporate.

## How is it useful?

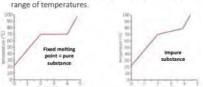
three substances

- Making copper sulfate crystals
- . Drying of glue
- Obtaining lithium compounds from solution



#### PURE SUBSTANCES AND MIXTURES

- Chemists make mixtures suitable to specific purposes (e.g. toothpaste and paint); they work out the best amounts of each substance to add to the mixture.
- A pure substance has a fixed melting and boiling point.
- An impure substance (mixture) will melt/boil over a





## Atoms and elements



- An atom is made up of three subatomic particles: protons, electrons and neutrons.
- Protons and neutrons are found in the nucleus of the atom (in the centre).
- · Electrons are found orbiting the nucleus in shells.
- Protons have a positive charge.
- · Electrons have a negative charge.
- Neutrons have ano charge.

In an atom, there are equal numbers of protons and electrons because the positive and negative charges need to balance.



#### 4. Pure vs Impure



#### Pure Substances

Asubstance is pure if it only has **one type** of particle in it e.g. just hydrogen atoms or just carbon dioxide molecules.

#### Impure Substances

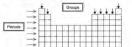
Impure materials are mixtures of different types of particle.





#### 6. Patterns in the Periodic Table

Elements are arranged on the periodic table in groups and periods. Horizontal rows are called periods and vertical columns are called groups.



Groups are labelled 1-7 from left to right, with last group being called either group 8 or 0. Elements in the same group have similar properties; because of this we can make predictions about trends.

#### 2. Elements and Compounds

**Elements** are substances made up of one type of atom. All the elements are found listed in the Periodic Table



Compounds contain two or more elements that are chemically joined to eachother. Compounds are formed by chemical reactions.

Examples of compounds
Carbon dioxide (CO <sub>2</sub> )
Water (H <sub>2</sub> O)



KS3 Science

## **Atoms and Elements**

#### 7. Metals and Non-Metals

# Physical properties of metals:

Shiny Strong

Malleable (can bend)

High melting and boiling point

Conduct heat well

Conduct electricity well



Na

#### 3. Chemical Symbols and Formulae

Each element is coded for by a formulae. Most elements have a formula which is the first letter of it's name (eg. C for Carbon and H for Hydrogen). Other formulae are the first two letters of the element name (eg. U for Lithium and Ne for Neon). There are a few exceptions to this rule. Can you spotthem?

#### Naming Compounds:

Lithium Hydroxide - (Lithium, Hydrogen + Oxygen) - Li OH Lithium Nitrate - (Lithium, Nitrogen + Oxygen) - Li NO<sub>3</sub> Lithium Carbonate - (Lithium, Carbon + Oxygen) - Li CO<sub>3</sub> Lithium Sulphate - (Lithium, Sulphur + Oxygen) - Li SO<sub>4</sub>

#### 5. The Periodic Table

All the different elements are arranged on the periodic table. The elements are arranged in order of increasing atomic number. On the periodic table, we can see the metal elements on the left and non metal elements on the right.



#### 8. Atomic Number and Mass Number

This is the total of protons +neutrons Mass Num

This is the number of protons

Therefore sodium has 11 protons, 11 electrons and 12 (23-11) neutrons.



## **Forces**

A force can be a **push or a pull**, for example when you open a door you can either push it or pull it. You can not see forces, you can only see what they do.

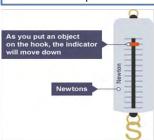
When a force is applied to an object it can lead to a change in the objects

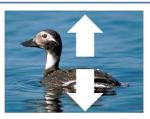
- Speed
- · Direction of movement
- Shape (think about a rubber band)

Forces can also be divided into 2 types, contact forces and non contact forces.

- Contact forces for example friction, are caused when two objects are in contact.
- Other forces for example gravity, are non contact forces. The two objects do not need to be in contact for the force to occur.

The unit of force is the **Newton (N),** this is named after Sir Isaac Newton, who came up with many theories including those to do with gravity and the three laws of motion. We measure force using a piece of equipment called a Newton metre. See the picture below.





Floating duck

100

Rising air balloon

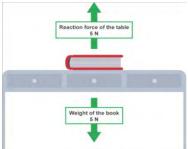
Key Terms	Definitions
Newton	The unit of force
Newton meter	A piece of equipment that can be used to measure the size of the force
Contact Force	A force caused by the contact between two objects
Non Contact Force	A force between two bodies that are not in contact for example gravity
Free body force diagram	A diagram which shows all the forces acting on an object

#### **Force Diagrams**

To show the forces acting on a body we use a free body force diagram. A free body force diagram shows all of the forces that are acting on the body. It has arrows that show the direction the force acts, the larger the arrow, the larger the force. A free body fore diagram should always have labelled arrows.



Submarine at constant speed and depth



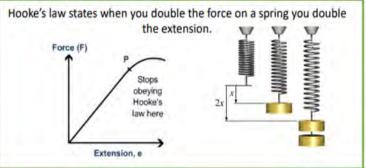


## **Forces**

## Types of force

In the table below different forces are summarised:

Name of Force	What causes it?	Example
Friction	When two objects rub together	Cartyres moving on a road.
Air resistance	When an object rubs against air particles	A sky diver falling through the air
Reaction	A force that acts in the opposite direction	A book on a desk, the force acting up is a reaction force
Weight	The force an object exerts on the ground due to gravity	You will exert a force on the ground, that is your weight
Thrust	The force that drives on objects with an engine	Thrust moves a plane forwards





on the Planets

2.5 2.0 2.0 1.5 1.0

As planets have different masses a person's weight would be different depending which planet they were on. For example, a person's weight on Earth is 1000N. If that same person was on Jupiter their

# Contact Forces:

Friction, Air Resistance, and Water Resistance

Non Contact Forces:

Gravity, Magnetic force

## Balanced Forces

When we talk about the total force acting on object we call this the **resultant force**. When the forces acting in opposite directions are the same size we say the forces are **balanced**. This means one of two things:

- 1.The object is stationary (not moving)
- 2. The object is moving at a constant speed. This is known as Newton's first law.



For example, the resultant force acting on this object is 5N-5N=0N

Key Terms	Definitions
Resultant force	The total force acting on an object
Balanced force	When the resultant force on an object is 0
Unbalanced forces	When the resultant force on an object is more or less than 0

# **WHA** DT

#### Year 7 D&T - Gumball Machine Project



#### Analyse the above Gumball Machines using ACCESS FM.

We use ACCESS FM to help us write a specification - a list of requirements for a design - and to help us analyse and describe an already existing product.

is for Aesthetics

is for Cost

is for Customer

is for Environment

is for Size

is for Safety

is for Function

is for Material

# Resistant Materials



It's better to use materials from renewable resources — ones that are replaced naturally as fast as we use them up. For example, pine from well-managed plantations is quite a sustainable choice. (But if the timber has to be transported a long way that'll probably use up a lot of fossil fuels.) Natural fibres used for textiles (e.g. cotton) are all renewable.

Using recucled materials means that fewer new resources are needed, and often less energy is used. For example, recycling old food cans takes much less energy than mining and processing new metal.

1 km = 1000 m

1 m = 100 cm

1 cm = 10 mm

ACCESS FM - Helpshee

Aesthetics means what does the product look like? What is the: Colour? Shape? Texture? Pattern? Appearance? Feel?

Cost means how much does the product cost to buy? How much does it: Cost to buy? Cost to make? How much do the different materials cost? Is it good value?

Customer means who will buy or use your product?
Who will buy your product? Who will use your product?
What is their: Age? Gender?
What are their: Likes? Dislikes? Needs? Preferences?

Environment means will the product affect the environment?
Is the product: Recyclable? Reuseable? Repairable? Sustainable?
Environmentally Friendly? Bad for the environment?

OR's of Design: Recycle / Reuse / Repair / Rethink / Reduce / Refuse

Size means how big or small is the product?
What is the size of the product in millimeters (mm)? Is this the same size as similar products? Is it comfortable to use? Does it fif?
Would it be improved if it was bigger or smaller?

Safety means how safe is the product when it is used? Will it be safe for the customer to use? Could they hurt themselves? What's the correct and safest way to use the product? What are the risks?

Function means how does the product work? What is the products job and role? What is it needed for? How well does it work? How could it be improved? Why is it used this way?

Material means what is the product made out of?
What materials is the product made from? Why were these materials used? Would a different material be bette? How was the product made? What manufacturing techniques were used?

Hatching Blending



Crosshatching Stippling



PINE: Pine is a softwood which grows in most areas of the Northern Hemisphere. There are more than 100 species worldwide Properties Pine is a soft white or pale yellow wood which is light weight, straight

grained and lacks figure. It resists shrinking and



**Tenon Saw** 

Tri-Square

Coping Saw

**File** 



**Bench Hook** 

#### **Evaluation**

Designers evaluate their finished products or prototypes in order to test whether they work well and if the design can be corrected or improved. Whatever you have designed it is important to evaluate your work constantly during the project. Evaluation can take a variety of forms:

- General discussion with other pupils, staff and others. Questionnaires / surveys carried out at any time during the project.
- Your personal views, what you think of existing designs.
- Most important of all what do you think of your designs, prototypes and finished products?
- Can you think of any other ways of evaluating your work?

Remember to always suggest improvements when evaluating!





Testing a prototype / developed design is a very important part of the design and manufacturing process. Testing and evaluation, simply confirms that the product will work as it is supposed to, or if it needs refinement.

In general, testing a prototype allows the designer and client to assess the viability of a design. Will it be successful as a commercial product? Testing also helps identify potential faults, which in turn allows the designer to make improvements.









Pillar Drill

#### **Target Market**



A target market is the market segment (group of potential customers) which a particular product or service is marketed (advertised) to.



#### Food Tech

## **Health and Safety**



Carry knives pointing down.



Wash up with hot water and washing liquid.



Clean surfaces and equipment to kill bacteria.



Wash hands with soap after touching raw meat.



Wipe up spills straight away to avoid slips.



#### **Knife Skills**

Always carry knives pointing downwards

Always pass knives by the handle

Never run or fight with knives

Keep the knife blade away from your fingers when cutting

Never cut towards yourself

Never leave a knife in the sink

Never try and catch a knife if it falls

When using a knife there are
TWO techniques we can use to
ensure knife safety when
cutting ingredients.



Claw grip



Arch grip

#### **Bacteria**

Bacteria are a micro-organisms that multiply in certain conditions.

Where can bacteria be found?

<u>Everywhere</u>

#### Are all bacteria bad?

No some are good and essential for normal bodily function.

#### How can you reduce the risk of bacteria?

Storing food separately

Storing and cooking foods at the correct temperatures

#### The 4 C's

Cleaning - wash your hands properly.

Cooking - make sure you cook food properly or you could make

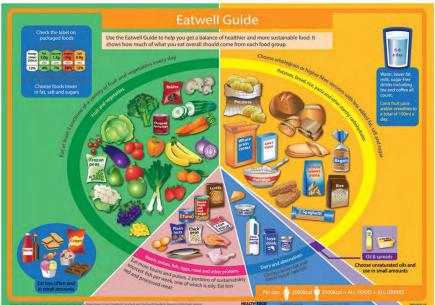
someone very ill.

Chilling - keep it chilly silly.

**Cross contamination** - keep raw meat and cooked food apart.



#### Food Tech





#### **Food Miles**

All food makes a journey from where it is grown or produced to your plate.

How far food has travelled is known as its food miles.

We should be aiming for as few miles as possible. Choosing foods with fewer food miles helps reduce pollution and protect our planet. We can reduce food miles by eating food that is in season, and buying food that is produced locally.

## **Cooking Processes**

Radiation

Heat from an oven or grill.

## <u>Denaturation</u>

When the protein in cheese unravels (melting).

#### Gelatinisation

When starch granules swell.

#### Mis-en-place

A French word to describe preparing ingredients and getting everything ready for cooking.

#### Convection

The scientific process that occurs when liquids boil in a pan.

#### Stock

The juice from cooked meats, fish, and vegetables.

#### **Enzymic Browning**

A reaction that occurs in some fruit and vegetables when left to react with air.

#### Gluten

The protein particles contained in flour.

#### **Shortening**

Rubbing flour and fat together to make a crumbly mixture.

#### Dextrinisation

A chemical process that turns food brown/black when cooking.



# Year 7 – Knowledge Organiser – Anatomy and Physiology





Parts of a warm up

1 Pulse raiser: Light continuous activity such as slow jogging, is used to increase heart rate and blood flow. Muscles, ligaments and synovial fluid in the joints are warmed, increasing flexibility

Stretching the main muscle groups and joints increases their elasticity and mobility so that they are less likely to be strained. Dynamic 2 Stretch: stretching is a form of stretching whilst moving and therefore not holding a stretch e.g. lunges. Static stretching is holding a stretch for 8-10 seconds (before

3 Mobilisation: Gently moving the joints through a full range of movement to promote synovial fluid the helps to lubricate the joint e.g. shoulder rotations. Shoulder rotations, open and close the gate, ankle plantar and dorsi flexion.





#### Effects of exercise

## 4 Heart rate raises:

During exercise the heart rate increases so that sufficient blood is taken to the working muscles to provide them with enough nutrients and oxygen. An increase in heart rate also allows for waste products to be removed.

#### 5 Blood pressure increases:

Your heart starts to pump harder and faster to circulate blood to deliver oxygen to your muscles. As a result, systolic blood pressure rises.

## 6 Endorphins are released into the

blood:

When you exercise, your body releases chemicals called endorphins. These endorphins interact with the receptors in your brain that reduce your perception of pain. Endorphins also trigger a positive feeling in the body, similar to that of morphine.

#### Benefits of exercise

7 Physical health and well-being: Improves fitness levels, heart function and efficiency of the body systems e.g. cardio-vascular system. Reduced risk of some illness e.g. diabetes, helps to prevent obesity, enables you to carry out everyday tasks without getting tired.

#### 8 Mental health (emotional) and well-

being:

Reduces stress, release feel-good hormones in the body such as serotonin, helps us to control our emotions and work productively.

#### 9 Social health and well-being: Provides opportunities to socialise/make friends, encourages cooperation, teamwork and mental resilience.



#### Structure of a PE lesson:

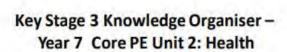
1. Warm up 2. Sports specific drills 3. Adapted games

4. Cool down



	Muscle	Static stretch
10	Triceps	3.0
11	Hamstring	>
12	Pectorals	*
13	Quadriceps	-
14	Gluteals	**
15	Biceps	1
16	Deltoids	
17	Abdominals	1
18	Gastrocnemius	1
18	Latissimus dorsi	-







	Physical Effects Imn	nediate		Physical Effects Lor	ng Term		Mental Effe	cts		S	
1	Increased heart rate. 4		7	Lower resting heart rate	1.	11	Reduces Stress		14	Make Frie	
2	Increased breathing rate and depth.		8	Lower breathing rate		12	12 Makes you feel good. It releases		a serotonin		group, yo greater er social skil
3	Skin becomes red as blood comes to the surface.		9	Bigger and Stronger muscles (Hypertrophy)	9		the feel good hormone Serotonin.	Car .	15	Teamwor your men	
4	Skin becomes sweaty to lower your body temperature.	*	10	Reduce risk of chronic illnesses		13	Increases			together to common improving winning a	
5	Lactic acid is produced causing muscular pain.	N. T.		such as type 2 diabetes and heart disease	V and its		Confidence	000	16	Communi It makes y	
6	Activation of serotonin - which makes you feel good.	<del>"</del>				<b>H</b>	$\bigcirc$		17	Leadersh You have to achieve work with	

	Social Effects	
14	Make Friends. If you exercise with a group, you'll develop greater empathy and social skills and gain new social outlets.	6
15	Teamwork Skills. Allows your members to work together to achieve a common goal, such as improving as a team or winning a game.	<b>W</b>
16	Communication Skills. It makes you talk to and listen to others.	
17	Leadership Skills. You have to do your part to achieve the goal and work with others.	MAN LON



Ça va?	How are you?
Bonjour	Hello
Salut	Hi
Comment t'appelles-tu?	What's your name?
Je m'appelle	My name is
Comment ça s'écrit ?	How is it spelt?
Ça s'écrit	It's spelt
Oui, ça va bien, merci	It's going well thanks.
Pas mal	Not bad.
Non, ça ne va pas	No, it's not going well.
Au revoir	Goodbye.
À bientôt	See you soon.
À plus tard	See you later.
Quel âge as-tu?	How old are you?
J'ai ans	I'myears old.
Quelle est la date de ton anniversaire?	When is your birthday?
Mon anniversaire est le	My birthday is the

Who is in your family?
My mum
My dad
My step-mum
My step-dad
My parents
My brother
My sister
My half or step-brother
My half or step-sister
I am an only child
My uncle
My auntie
My cousin (male)
My cousin (female)
My grandfather
My grandmother
My grandparents

# Languages and me! Year 7 French ARE 1

	Qu'est-ce qu'il y a dans ton sac	What's in your bag/your pencil
	/ ta trousse?	case?
	Qu'est-ce que c'est?	What is it?
	C'est	Itis
	Il y a	There is
	Il n'y a pas de	There isn't
	J'ai	I have
	Je n'ai pas de	I don't have
	Un cahier	An exercise book
<b>3</b>	Un livre	A book
7	Un stylo/ un bic	A pen /A biro
A STATE OF	Un crayon	A pencil
Ø	Un portable	A mobile phone
3	Une trousse	A pencil case
ⅈ	Un taille-crayon	A sharpener
No.	Un bâton de colle	A glue stick
8	Un sac	A bag
1.	Un carnet de texte	A planner
1	Une gomme	A rubber
1	Une tablette	A ta blet
and the last	Une règle	A ruler
9	Une calculatrice	A calculator
	Des feutres	Some felt tips
$\times$	Des ciseaux	Some s cissors

Ç'est de quelle	What colour is it?
couleur?	
	DI
Bleu	Blue
Blanc	White
Rouge	Red
Vert	Green
Orange	Orange
Jaune	Yellow
Marron	Brown
Noir	Black
Rose	Pink
Violet	Purple
Gris	Grey
Clair	Light
Foncé	Dark
Rayé	Striped
Multicolore	Multi-coloured

	As-tu un animal à la	Do you have a pet?
	maison?	
	Un chien	A dog
1	Un chat	A cat
-	Un cochon d'Inde	A guinea-pig
	Un hamster	A hamster
75	Un lapin	A rabbit
A	Un oiseau	A bird
e 1	Un cheval	A horse
1	Un lézard	A lizard
<b>₹</b>	Un poisson	A fish
1	Une souris	A mouse
	Une tortue	A tortoise
M	Une araignée	A spider
160	Un serpent	A snake
X	Je n'ai pas d'animal	I don't have a pet
<b>\</b>	de compagnie	



# Languages and me! Year 7 French ARE 1

My belongings – Cognates, Gender; masculine and feminine nouns. Plurals. Use of 'avoir'.

A **noun** is an object, place or thing.

In French, all nouns are either **masculine (masc)** e.g. **un** stylo or **feminine (fem)** e.g. **une** gomme.

If there is more than one item e.g. 3 pens, we call this **plural (pl)**.

	masculine singular	feminine singular	Word beginning with a vowel	plural
а	un	une		des
the	le	la	ľ	les

An adjective describes a noun e.g. a green bag.

In French, a djectives normally go a fter the word it's describing e.g. un sac **vert** (a bag green).

If the noun is feminine the adjective has to a gree

(e.g une gomme verte)

If the noun is plural we also add an 's' to make it a gree (e.g. deux gommes vertes)

	masc	fem	Masc plural	Fem plural
green	vert	vert <b>e</b>	vert <b>s</b>	vert <b>es</b>
white	blanc	blanche	blancs	blanches

Usually words that end with the letter 'e' or 'ion' are feminine

e.g. une trousse, une a nimation.

Most plurals end with the letter 's' like in English

e.g. deux gommes

Some form their plural with an 'x'

e.g. un jeu, deux jeux

A pronoun is a word that states who is doing the verbe.g. **She** plays tennis.

Pronouns	Avoir – to have	
je (I)	<b>J'ai</b> – I have	
tu (you)	tu as – You have	
il (he), elle (she), on (we)	il a / elle a / on a - He has/she has/we have	
nous (we)	nous avons – we have	
vous (you) (pl)	vous avez – you have (pl)	
ils/elles (they)	ils ont / elles ont – they have	

Je n'ai pas de...= I don't have... When we use this phrase there is no un/une e.g. Je n'ai pas  $\operatorname{de}$  s tylo



# People Around Me Year 7 French ARE 2

Que penses-tu?	What do you think?
J'adore ♡♡	Hove
J'aime ♡	Hike
Je n'aime pas 💝	I don't like
Je déteste 💝 💝	I hate
À mon avis	In my opinion
Je pense que	I think that
Je crois que	I believe that
Selon moi	According to me

Tu es comment?	What are you like?	
J'ai Il a /elle a	I have He has/she	
	has	
les cheveux 🔽	hair	
longs	long	
courts	short	
raides	straight	
bouclés {{}	curly	
ondulés	wavy	
Afro / crépus	afro	
blonds	blond	
châtains	light brown	
les yeux •••	eyes	
bleus	blue	
marron •••	brown	
verts	green	
foncés	dark	
noirs 👀	black	
gris 🗟 🗟	grey	
Je suis	lam	
II / elle est	He/she is	
grand (e)	tall	
petit (e) 👸 🖁 "	short	
gros (-se)	fat	
mince 🕴 💂	thin	
de taille moyenne " 👚	medium size	

Tu es comment?	What are you like?
/Décris-toi	/Describe yourself
Je suis	lam
Gentil (-le)	Kind
Agréable	Pleasant
Joyeux (se)	Нарру
Bavard(e)	Chatty
Beau/belle	Beautiful
Amusant (e)	Fun
Fort (e)	Strong
Mignon(ne)	Cute
Joli(e)	Pretty/Handsome
Jeune	Young
Parfait (e)	Perfect
Rapide	Fast
Riche	Rich
Sage	Wise
Timide	Shy
Travailleur(se)	Hard working
Triste	Sad
Vieux (vieille)	Old
Ennuyeux(se)	Boring
Casse-pieds	Annoying
Sérieux (se)	Serious
Difficile	Difficult
Sévère	Strict
Moche	Ugly
Bruyant	Noisy
Impoli(e)	Rude
Horrible	Horrible/Awful
Paresseux(se)	Lazy
Gourmand(e)	Greedy
Sportif(ve)	Sporty
Sympa	Nice

<u>Extra detail</u>	<u>Extra detail</u>	
Je porte	l wear	
J'ai	I have	
Des lunettes	glasses	
Des piercings	piercings	
Le voile	a hijab	
Des lentilles	contact lenses	
Des tâches de	freckles	
rousseur		
Une cicatrice	a scar	
Une barbe	a beard	
Une moustache	a moustache	

Quelle-est ta	What is your
nationalité?	nationality?
Je suis	lam
Anglais(e)	English 🛨
Français(e)	French
Belge	Belgian
Suisse	Swiss +
Allemand(e)	German
Espagnol(e)	Spanish
Somalien(ne)	Somalian
Polonais(e)	Polish
Portugais(e)	Portuguese 👳
Bangladais(e)	Bangladeshi <b>e</b>
Chinois(e)	Chinese 🔭
Italien(ne)	Italian
Gallois(e)	Welsh 🌉
Pakistanais(e)	Pakistani
Écossais(e)	Scottish 🔀
Irlandais(e)	Irish
Americain(e)	American

Connectives	Connective
Mais	But
Pourtant	However
Aussi	Also
En plus	Furthermor
	e
Parce	Because
que/car	
Et	And

<u>ntensifiers</u>	<u>Intensifiers</u>
Гrès	very
Assez	quite
Jn peu	a bit
Trop	too
Extrèmement	extremely
Tellement	really



## People Around Me. Year 7 French ARE 2 Knowledge Organiser

Describe yourself (appearance and personality). Family, friends (describing others), pets,

Pronouns	Avoir – to have	Être – to be
Je (I)	J'ai I have	Je suis - I a m
Tu (you)	Tu as (you have)	Tu es – You are
il (he), elle (she)	II a (he has), elle a (she has)	il /elle est - He is/she is
Nous (we)	Nous avons (we have)	Nous sommes – we are
Vous (you) (pl)	Vous avez (you have)	Vous êtes — you are (pl)
ils /elles (they)	Ils ont /elles ont (they have)	ils / elles sont – they are

To say "my" in French we must change how we say it to match the noun (whether it is masculine, feminine or plural). Whether you are male or female doesn't change which word you use.

#### Examples:

Mon père = mydad Ma mère = mydad

Mes parents = my parents

	<u>Masc</u>	<u>Fem</u>	<u>Plural</u>
my	mon	ma	mes
your	ton	ta	tes
his/her	son	sa	ses

#### Comparisons

Plus - more Jean est plus intéressant que Paul Moins - less Paul est moins intéressant que Jean

**Superlative** 

Le /la plus – the most Jean est le plus i ntelligent Le /la moins – the least Marie est la moins sympa

Je m'appelle - My name is / I am called

Elles'appelle - she is called Ils'appelle - he is called Ils s'appellent - they are called

#### Adjective agreement.

Remember a djectives have to agree with the noun. Normally you would add an 'e' to make the adjective feminine but check out the following rules...

 $II\ est\ paress \textbf{eux}-elle\ est\ paress \textbf{euse}$ 

Il est sporti**f** – elle est sporti**ve** 

Il est tra vailleur – el le est tra vailleuse

Il est gentil – elle est gentille

II est mignon – elle est migon  ${f ne}$ 

Il est **beau –** elle est **belle** 

Il est vieux – elle est vieille Il est sympa – elle est sympa

# **Spanish**

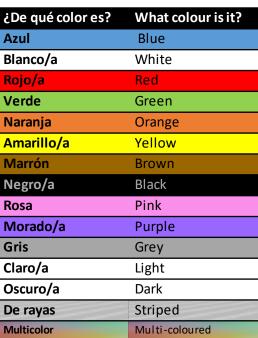
lili i

How are you?
Hello
What's your name?
My name is
How is it spelt?
It's spelt
It's going well thanks.
Not bad.
Amazing
Awful.
Goodbye.
See you later.
See you next time.
How old are you?
I'mye a rs old.
When is your birthday?
My birthday is the

¿Quién hay en tu familia?	Who is in your family?
Mi madre	My mum
Mi padre	My dad
Mi madrastra	My step-mum
Mi padrastro	My step-dad
Mis padres	My parents
Mi hermano	My brother
Mi hermana	My sister
Mi hermanastro	My half or step-brother
Mi hermanastra	My half or step-sister
Soy hijo/a único/a	I am an only child
Mi tío	My uncle
Mi tía	My auntie
Mi primo	My cousin (male)
Mi prima	My cousin (female)
Mi abuelo	My grandfather
Mi abuela	My grandmother
Mis abuelos	My grandparents

## Languages and me! Year 7 Spanish ARE 1

	¿Qué hay en tu mochila/tu	What's in your bag/your pencil
	estuche?	case?
	¿Qué es?	What is it?
	Es	Itis
	Hay	There is
	No hay	There isn't
	Tengo	I have
	No tengo	I don't have
,	Un cuaderno	An exercise book
	Un libro	A book
<i>r</i> .	Un boli	A pen /A biro
A STATE OF THE PARTY OF THE PAR	Un lápiz	A pencil
	Un móvil	A mobile phone
7	Un estuche	A pencil case
ķī	Un sacapuntas	A sharpener
100	Un pegamento	A glue stick
8	Una mochila	A bag
1.	Una agenda	A planner
	Una goma	A rubber
8	Una tableta	A ta blet
Cally .	Una regla	A ruler
7	Una calculadora	A calculator
	Unos rotuladores	Some felt tips
<	Unas tijeras	Some scissors





# Languages and me! Year 7 Spanish ARE 1

My belongings – Cognates. Gender; masculine and feminine nouns. Plurals. Use of 'tener'.

e.g. No tengo boli



A **noun** is an object, place or thing.

In Spanish, all nouns are either masculine (masc) e.g. *un* boli or feminine (fem) e.g. *una* goma.

If there is more than one item e.g. 3 pens, we call this **plural** (**pl**).

i	masculine singular	feminine singular	plural
а	un	una	unos/unas
the	el	la <b>T</b>	los/las
my	mi	mi	mis

An adjective describes a noun e.g. a red pen.

In Spanish, adjectives normally go after the word it's describing e.g. un boli **rojo** (a pen red).

If the noun is feminine the adjective has to agree e.g **una** goma blanc**a** 

If the noun is plural we also add an 's' to make it agree e.g. dos gomas blancas

	masc	fem	masc plural	fem plural
white	blanc <b>o</b>	blanc <b>a</b>	blanc <b>os</b>	blanc <b>as</b>

Most Spanish nouns ending in "o" and "ma" are masculine e.g. un libro, un problema

Most Spanish nouns ending in "a", "sión" "dad" and "tud" are feminine eg. una tableta, una televisión, la felicidad, la gratitud
All plurals end with the letter 's' like in English
e.g. dos gomas

A pronoun is a word that states who is doing the verb e.g. **She** plays tennis.

Pronouns	<b>Tener</b> – to have
yo (I)	<b>tengo</b> – I have
<b>tú</b> (you)	tienes – You have
<b>él</b> (he), <b>ella</b> (she)	tiene - He has/she has
Nosotros/nosotras (we)	tenemos – we have
Vosotros/vosotras (you) (pl)	tenéis – you have (pl)
ellos/ellas (they)	tienen—they have
No tengo=I don't have When we use this phrase there is no un/una	



# People Around Me Year 7 Spanish ARE 2

¿Qué piensas?	What do you think?
Me encanta ♡♡	llove
Me gusta ○	Hike
No me gusta 😝	I don't like
Odio/detesto 🐯 🐯	I hate
En mi opinion	In my opinion
Pienso que	I think that
Creo que	I believe that
Según yo	According to me

¿Cómo eres?	What are you like?
Tengo /Tiene	I have He/she
	has
El pelo 🐧	hair
Largo 🦳	long
Corto 🕥	short
Liso 🛞	straight
Rizado "	curly
Onducado	wavy
Afro 🖺 🦳	afro
Rubio	blond
Castaño 💿 💿	light brown
Los ojos 😱	eyes
Azules 👁 🖜	blue
Marrone 🍙 🍙	brown
Verdes 👀	green
Oscuros 💿	dark
Negros 👼 🚡	black
Grises	grey
Soy	I am
Él es / ella es	He/she is
Alto/a	tall
Bajo/a 📥 🖫	short
Gordo/a	fat
Delgado/a	Thin

.0′	W
¿Cómo eres? Describete	What are you like? / Describe
	<u>yourself</u>
Soy	lam
Amable/simpático/a	Kind
Agradable	Pleasant
Contento/a	Нарру
Hablador/a	Chatty
Guapo/a	Beautiful
Divertido/a	Fun
Fuerte	Strong
Mono/a	Cute
Bonito/a	Pretty/Handsome
Joven	Young
Perfecto/a	Perfect
Rápido/a	Fast
Rico/a	Rich
Sabio/a	Wise
Tímido/a	Shy
Trabajador/a	Hard working
Triste	Sad
Viejo/a	Old
Aburrido/a	Boring
Pesado/a – molesto/a	Annoying
Serio/a	Serious
Difícil	Difficult
Estricto/a	Strict
Feo/a	Ugly
Ruidoso/a	Noisy
Maleducado/a	Rude
Horrible	Horrible/Awful
Perezoso	Lazy
Goloso/a	Greedy
Deportivo/a	Sporty
Emocionante	Exciting

Extra detail	Extra detail
Llevo	l wear
Tengo	I have
Gafas	glasses
Piercings	piercings
El hiyab	a hijab
Lentillas	contact lenses
Pecas	freckles
Una cicatriz	ascar
Una barba	a beard
Un bigote	a moustache

<u>Cuál es tu</u>	What is your
nacionalidad?	nationality?
Soy	lam
Inglés/a	English 🛨
Francés/a	French
Belga	Belgian <b>T</b>
Suizo/a	Swiss
Alemán/a	German
Español/a	Spanish
Somalí	Somalian 📩
Polaco/a	Polish
Portugués/a	Portuguese 😕
Bangladesí	Banglades <u>hi</u>
Chino/a	Chinese
Italiano/a	Italian
Galés/a	Welsh 🌉
Paquistaní	Pakistani C
Escocés/a	Scottish 🔀
Irlandés/a	Irish
Americano/a	American

Connectives	Connectives
Pero	But
Sin embargo	However
Tambien	Also
Ademá	Furthermore
Porque	Because
Υ	And
<u>Intensifiers</u>	<u>Intensifiers</u>
Muy	very
Bastante	quite
Un poco	a bit
Demasiado	too
Extremadamen	extremely
te	
••	

# People Around Me Year 7 Spanish ARE 2 - Knowledge organiser

Describe yourself (appearance and personality). Family, friends (describing others), pets.



Ser – to be	Tener – to have
soy - I am	tengo - I have
eres – You are	tienes – you have
<b>es</b> - He is/she is	tiene – he/she has
somos – we are	tenemos – we have
soís – you are (pl)	tenéis - you have (pl)
son—they are	tienen – they have
	soy - I am  eres – You are  es - He is/she is  somos – we are  soís – you are (pl)

To say "my" in Spanish we must change how we say it to match the noun (whether it is singular or plural).

My (masculine) = e.g. mi padre My (feminine) = e.g. mi madre My (plural) = e.g. mis padres

	Singular	Plural
my	mis	mis
your	tu	tus
his/her	su	sus

To say "I like" in Spanish we must change how we say it to match the noun (whether it is singular or plural)

For singular nouns = me gusta e.g. me gusta mi madre

For plural nouns = me gustan e.g. me gustan mis padres

# **Comparisons**

más - more Juán es más interesante que Pablo

menos - less Pablo es menos interesante que Juan

tan...como - as...as Pablo es tan interesante como Juan

Superlative

El/la más — the most — Juan es el más inteligente

El/la menos – the least María es la menos simpática

This is the same for the verb 'I love'

For singular nouns = **me encanta** e.g. me encanta mi abuelo

For plural nouns = **me encanta**n e.g. me encantan mis hermanos

Me llamo – My name is/I am called

Se llama – he/she is called

Se llaman – they are called



# Why did William win the Battle of Hastings?



#### **Key Events**

 $5^{\text{th}}$  January 1066 – Edward the Confessor dies, leaving no heir to the English throne.

 $6^{\text{th}}$  January 1066 – Harold Godwinson is crowned King of England.

**20**<sup>th</sup> **September 1066** - Harold Hardraada, a Viking claiming the English throne, invades England with more than 10, 000 men in 200 longboats.

25<sup>th</sup> September 1066 – The Battle of Stamford Bridge. Harold Godwinson, defeats and kills Harald Hardraada, but this tires Harold's army.

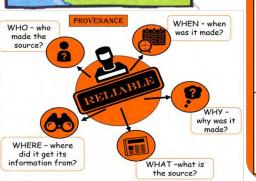
27<sup>th</sup> September 1066 – William Duke of Normandy, invades the South of England.

14<sup>th</sup> October 1066 – The Battle of Hastings Harold marches south to meet William, where they battle at Hastings.

25<sup>th</sup> December 1066 – William is crowned King of England at Westminster Abbey.

Most historians agree that luck and military skill were the important factors in the events of 1066.

# Stamford Bridge ENGLAND Hastings



#### Key Terms

chronology	Putting events in order from earliest to most recent.
reliability	Something that can be trusted.
interpretation	A view or judgement about something, not necessarily based on facts.
source	A piece of evidence that gives us information about the past.
heir	Next in line to the throne.
fyrd	Ordinary, peasant soldiers.
housecarls	Harold's elite and highly trained troops.
cavalry	A soldier mounted on a horse.

#### **History Skills Focus**

The Bayeux Tapestry was made c.1070.



#### Centuries

Century Formula = Add one '1' to the number of hundreds. E.G: AD  $150 = 1 + 1 = 2^{nd}$  Century AD E.G: 3000 BC=  $30 + 1 = 31^{st}$  Century BC

When your date is 2 digits or less, it MUST be the first century AD/BC. E.G: AD  $34 = 1^{st}$  Century AD.

#### Content of sources

Sources can be studied to find out more about the past. When we study the content of the source we are trying to find out what the source tells us or shows us.

Sources are the building blocks for interpretations



#### Key People

Edgar Atheling	Last male member of the House of Wessex but he was considered too young to rule.
Edward the Confessor	Edward became king of England in 1042. Edward married but had no children.
Harold Godwinson	English, Earl of Wessex, a powerful leader of England. His sister was married to Edward the Confessor.
Harald Hardrada	A Viking, King of Norway, most feared warrior in Europe, claims he was promised the throne.
William, Duke of Normandy	A Norman and Duke of Normandy in France, cousin of Edward the Confessor. An experienced leader and fighter.





# **Keywords**

fact	evidence that is believed to be true.
opinion	what someone thinks.
chronology	arranging events in date order.
psalter	a collection of religious poems.
motte	a mound of earth.
bailey	an area used for storage.
palisade	a wooden fence around the castle.
peasants	workers, poor people.
Feudal	a hierarchy which ordered
System	society so they all had a role to play.
Doom	Painting of hell which
Paintings	showed people what
	would happen if they did not live good lives.
Luttrell	a manuscript containing
Psalter	images of medieval life in a village.
monk	a man who gives up all his possessions to worship God.

# What was it like to live in Medieval England?



#### **Medieval Towns**

- Towns were dirty places.
- The streets ran with sewage.
- People would go to the toilet and wash in the same river.
- Churches set up hospitals to care for the sick.
- People threw waste out of their windows.

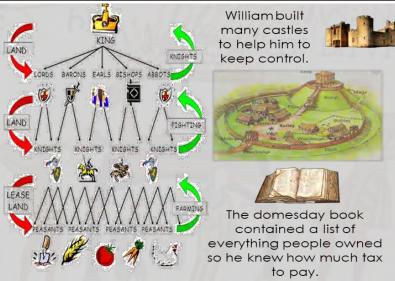
The feudal system was introduced by William and meant that everybody gained something which helped to keep people loyal.



# **Key People**

William the Conqueror

Won the Battle of Hastings in 1066 and established control of England.





# What was it like to live in Medieval England?

# LUTTRELL PSALTER

Life as a peasant was hard. They worked long hours, had to obey certain laws e.g asking their lord to leave the village and sometimes starved if there was a poor harvest.





Women often carried out the same work as men: farming the land, weaving, tending animals etc. Women aren't often documented in medieval texts as monks wrote about kings and other famous men.





- Doom paintings like this one were used to help people understand religion.
- The church had an important role in helping people get to heaven and controlling people.







#### **Bristol**

Bristol was originally established by the Anglo-Saxons at the loop where the Avon River meets the Frome.

William the Conqueror built a castle during the 11th century. The town began to prosper from 1247, when the Frome River was diverted by way of the Severn. In 1373 it was granted a charter and county status which widened Bristol's trade. It was an important port.

	Key Dates	
1066	Norman conquest	
1086	Domesday Book completed	



# How did people react to the Black Death?

रुरू,

#### **Key Events**

June 1348 – The Black Death arrived in England, in Weymouth, probably on trading ships coming from Europe.

September 1348 - The Black Death arrived in Bristol.

August 1348 - The Black Death arrived in London.

**September 1350** - The first outbreak of the plague died out. Around 1/3 of the population had died.

1351 - Edward III introduces the Statute of Labourers. This is a law that stops peasants for asking for higher wages.

1381 - Peasants Revolt - Wat Tyler led a group of rebels From Canterbury to London to demand political and social reforms.

The position of

<u>Causes of the</u> Black Death

> Miasma bad air.

Causes of the Black Death

the planets.

It was a punishment from God.

Jewish people or witches caused it.

## How did people react?

- Flagellants whipped themselves
- · People prayed
- · Doctors used leeches to bleed people.
- · Towns banned visitors
- People carried herbs and spices
- The streets were cleaned

## Was the Black Death a significant event?

To be considered **significant**, historians say that an event should have **changed** the **lives** of people at the time. To do this we study the **consequences** of the event.

#### Consequences of the Black Death:

- It killed about 1/3 of England's population; two million people.
- Survivors believed God had protected them so they were special.
- Peasants began to move around, going against the Feudal System, to look for work with better wages.
- The government introduced the Statute of Labourers which meant peasants could not be paid more than the wages they were paid in 1346.
- Peasants started to demand more rights due to the shortage of labour.

# Key Terms

The Black A plague that devastated Europe in the fourteenth Death century.

plague A deadly contagious disease.

Bubonic The most common type of plague, named after the buboes (onion shaped swellings that were usually the

first symptom of the Black Death).

Pneumonic A more deadly type of plague that attacked the lungs.

Plague

flagellants A religious group that punished themselves for sins by whipping their bodies. They believed the Black Death

was sent by God as a punishment.

miasma Theory that disease was caused by a poisonous cloud of

'bad air'.

revolt To take violent action against an established

government or ruler.

rebellion An act of armed resistance.

Feudal The system introduced by William the Conqueror to

System ensure loyalty and keep control.

Cause Something that directly leads to an event.

Consequence Something that happens as a result of an event.

# History Skills Focus - Inferring from sources

 As historians we make inferences from sources. Making an inference is working out some information from a source (an educated guess).

What can we infer from this source about Medieval beliefs about the causes of the Black Death?

We can infer that these people believed that God has sent the Black Death as a punishment as they are carrying a cross.





**UH** Geograph

UK - Where do we live?

# Latitude and

LATITUDE - LINES THAT GO AROUND THE GLOBE (THEY GO BY THE DIRECTIONS NORTH

ARID SOUTH) LONGITUDE - LINES THAT POINT FROM TOP TO BOTTOM OF THE GLOBE (THEY GO BY THE DIRECTIONS GAST AND WEST)



# Direction

The main direction we use are called immediate cardinal directions: North (N), South (S), East (E) and West (W)

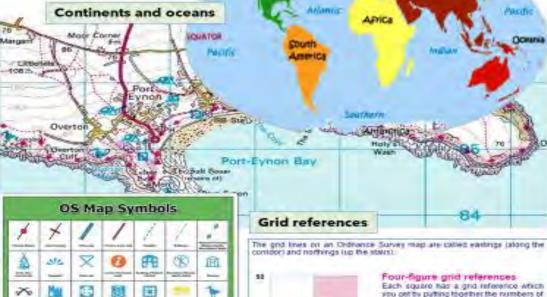
The compass rose shows us the inbetween directions. They are called intermediate directions.

NE means northeast SE means southeast SW means southwest NW means northwest



# Symbols

The symbols on a map are used to represent real objects located in the area shown on the map. The key, or legend, explains what the symbols are.



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P

PO

ra.

Both.

Marchite

PC

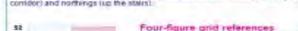
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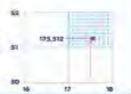


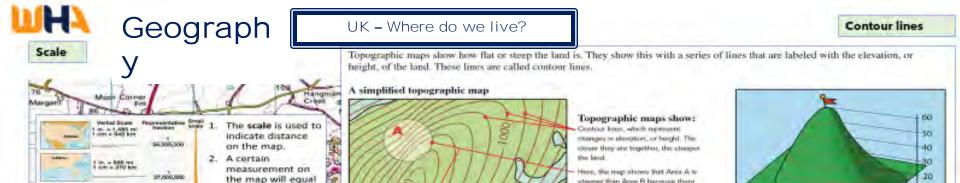


Each square has a grid reference which you get by putting together the numbers of the leasing and nothing that close in the bottom left hand comer.

# Six-figure grid references

In your head, you should be able to divide all sides of the square into ten equal sections. By doing this, you can pinpoint locations within the square - frese are called six-figure grid references.





a certain

bar scale

16,000,000

1,000,000

measurement on

3. The most common

type of scale is a

the earth's surface.

steeper then Area B because there

10

Contour lines show the aboutton.

Here the kind is steeper on the

left side and a gentler slope on.

the right.

are room lines and they are closer-

Elevation adicator, which talls the

height in feet or matery.

Details much as water.

together in A.

Buldings

Keywords Definition A large landmass (for example Africa or Asia) Continent A large body of salt water that covers 71% of our planet Latitude Parallel lines on an atlas map (drawn north and south of the equator) Vertical lines on an atlas map (drawn between the north and south pole) Longitude A measurement of enlargement or reduction from its original size (often shown as a ratio e.g., 1:50 000) Physical feature Something on the earth's surface that has been created by nature Something that has been created by humans Human feature Practical work undertaken in a particular environment (e.g., investigating a river) Fieldwork To look and record the features of an area



# **UH** Geograph

The Lake District is round in the North-West of England, on the West coast of Britain. It is found in the county of Cumbria and it is near a coastline with the Irish Sea.



# UK - The Lake District

The Lake District is a popular tourist attraction due to its unique landscapes shaped by glaciers. Scafell Pike is England's tallest mountain and Lake Windermere is England's largest lake.

**Tourism in the Lake District** 

Opportunities	Challenges
- Money from tourism can be used to improve the local area - Both the local economy and England's economy is boosted by tourism - Services for tourists also benefit local people - Jobs are created for local people	<ul> <li>Large numbers of tourists can damage the environment e.g. footpath erosion</li> <li>Prices rise in shops as tourists have more money to spend</li> <li>Demand for holiday homes pushes house prices up for locals</li> <li>More pollution and litter as well as traffic and parking problems</li> <li>Jobs in tourism often have low wages and are seasonal</li> </ul>

Keyword	Definition	
National Park	An area of outstanding natural beauty that is protected from development	
Honeypot	An overcrowded location or attraction	
Relief	The height and shape of the land	
Ice Age	A glacial period when the earth has lower than average temperatures	
Arete	A sharp knife edged ridge between two corries	
Corrie	An arm-chair shaped hollow in the mountainside formed by glacial erosion	
Tarn	A small mountain lake in a corrie	
U-shaped Valley	A valley formed by a glacier	
Freeze thaw weathering	When rocks are broken down over time by water freezing and thawing inside cracks in rocks.	
Tourism	When people spend time away from home for leisure or recreation	
Mining	When coal or other raw materials are taken from the ground	
Agriculture	Farming of either crops or animals	
Quarrying	Taking stone from the ground	
Erosion	The wearing away of land	

# **IIII** Religion and World Views

Judaism - What are the Stories of the Torah?

Omnipotent	All powerful, this means that God can do anything
Omnibenevolent	All loving, this means that God is completely loving to everyone
Omniscient	All knowing, this means God knows everything
Abraham	Founder (father) of Judaism – the 1 <sup>st</sup> prophet
Torah	Jewish holy book
Monotheism	Belief in one God
Prophet	A person who communicates with God and passes the message on to the people
Covenant	A promise made between God and his people
Hebrews	An old name for the Jewish people
Messiah	Meaning 'Chosen One' who will lead the Jewish people

# Covenants

Noah - God judged humanity and decided only Noah was a 'righteous man' and chosen to restart humanity. Ark represents one of God's miracles. 1st Covenant: God promised to never destroy humanity again.

Abraham - descendent of Noah.

2<sup>nd</sup> Covenant: God promised Abraham's people (people of God/Jews/Hebrews) would be enslaved then be freed and inherit the Promised Land. All boys would be circumcised as a symbol of their agreement (Brit Milah). This is the basis for the Hebrew's relationship with God.

Moses - saved the people of God from slavery in Egypt. Celebrated during Passover (Pesach) by eating unleavened bread 'matzah'. 3rd Covenant: Spoke directly with God at Mount Sinai and received the 10 Commandments the rules all Jewish people must live by. God will judge how well they have lived their lives when they die.



Followed God's commands without question





Bulrushes

Slave driver killing

The burning bush

10 Plagues

Exodus

Parting the Red Sea



Israel was established after the Second World War as a country the Jewish people could call home.

Area of land that God gave to Abraham and his descendants.

Called Canaan in the Torahnow known as Israel.





# **IIII** Religion and World Views

Nature of God

Creator - created the world and each of us

Law Giver - gave laws (through the prophets) that people should live by

Judge - will judge how we lived at the end of our lives

# Creation

God created the world from darkness. He worked for 6 days and on the 7th he rested. He commanded that the 7th day be known as the Sabbath and kept as holy.

Judaism - What are the Stories of the Torah?

# Adam & Eve

First people, created by God. Told to populate the Earth.

Shows God's nature (creator, law giver, judge). Shows that humanity comes from (and remains) a single world-wide family.





# Rainbows

God's covenant with humanity - never again will he destroy the world, no matter what we do



Prophets are not worshipped.

Prophets are role models - people should follow their example of how to live their lives.

48 male prophets Only 7 female prophets WHY?

Abraham & Isaac

God tests Abraham's loyalty

He must kill the son he waited all his life for

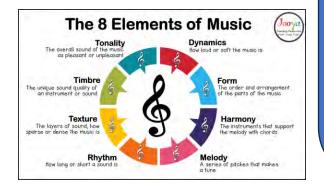
He trusts that God will make it right in the end



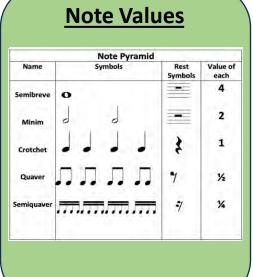
**Beat and Rhythm - Carnival Music** 

**VEV WODDS** 

Carnival takes place in most Caribbean and South American countries as well as the UK.



KET WUKDS		
Rhythm	The pattern of notes that fits around the beat	
Beat/Pulse	The constant steady pulse that doesn't change	
Call and response	When a leader plays a rhythm, and the group responds with a different rhythm	
Ostinato	A short repeating pattern that is played over and over	
Repetition	When something is played again	
Repetition	When something is played again	

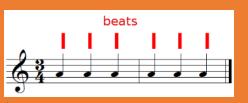


# **Time signatures**

(how many beats are in each bar)

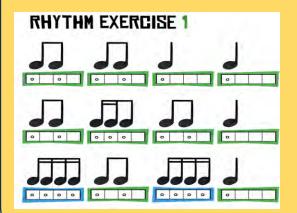


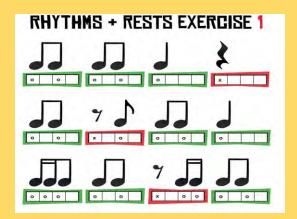
4/4 - Four crotchet beats in a bar



3/4 - Three crotchet beats in a bar

# **Rhythm Exercises to practice**



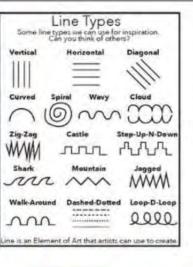


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## This topic centres on the art genre/category: Formal Elements

The Formal Elements are the parts used to make a piece of artwork. The art elements are line, shape, space, form, tone, texture, pattern, colour and composition. They are often used together, and how they are organised in a piece of art determines what the finished piece will look like.

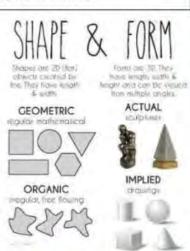


COLOURS

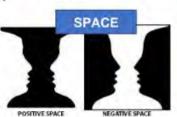
**Primary Colors** 

Secondary Colors

**Tertiary Colors** 





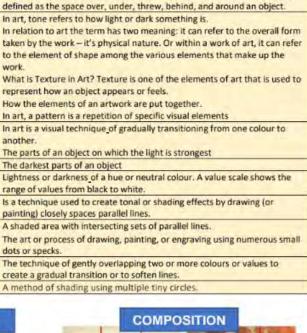












Lines are used by artists and designers to describe objects, add detail or

In the study of art, a shape is an enclosed space, a bounded 2D form that

Space refers to the emptiness or area between, around, above, below, or

within objects. Positive space - the shapes or forms of interest. Negative

space - the empty space between the shapes and forms. 3D space can be



**KEYWORDS** 

Line

Shape

Space

Tone

Form

Texture

Pattern

Gradient

Highlights

Shadow

Hatching

Stippling

Blending

Scumbling

**Cross Hatching** 

Value

Composition

Definition

another.

create expression.

has both length and width.











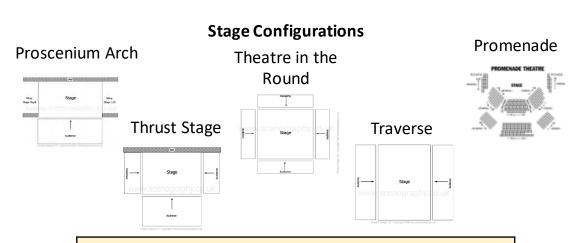
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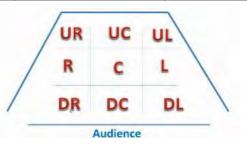
# Year 7 Drama- Block 1-Technique Toolkit

You will gain knowledge and understanding of the basic performance techniques and skills that will be required throughout the Drama curriculum.

Stage Positions	This is the different parts of the stage. Stage Positions are always from the actor's point of view.
Stage Configura tions	This is the different types of staging used for a performance.
Freeze-frame,	This is a frozen picture which is used at the start/end of the scene or to show an important point of a performance. Freeze Frame can also be called a Still Image or Tableaux.
Step-out	This is when actor's step out of a still image and speak their character's thoughts to the audience whilst the rest of the characters are frozen.
Split-stage	This is where the stage is split in two to show a different location or time.
Thought Tracking	This is similar to stepping out, however the teacher selects which characters are going to voice their thoughts
Narration	This is where a narrator tells the audience what is happening in a scene or performance.
Stock Characters	This is a stere otypical character we expect to see in a performance e.g. Hero, Heroine, villain etc.



Stage Positions		
Upstage Right	Upstage Centre	Upstage Left
Stage Right	Centre	Stage Left
Downstage Right	Downstage Centre	Downstage Left





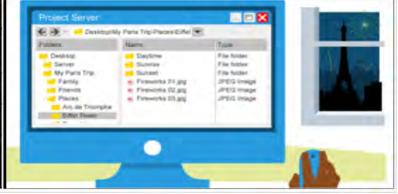
# **Computing**

# 7.1 - Using Computers: Knowledge Organisers

	File	Folder/Sub-folder	File Management
Keywords  File Management  Passwords	Anything you save. It could be a document, a piece of music, a collection of data or something else.	A place to store files that are related, eg. all of the files relating to one project. Folders help to keep work organised.  Sometimes called a directory  A sub-folder is a folder inside another folder.	The organisation of files and folders using suitable names (which gives the identity of a file) and placed into folders.
Server	Security	Password	Alphanumeric
A computer that holds data to be shared with other computers. A web server stores and shares websites	The protection of data or hardware from unauthorised users	A string of characters used to verify the identity of a user	A mixture of letters and numbers

Secure Password	Non-secure Password  Name, pet etc	
A mixture of numbers, letters and symbols at least 8 characters		
Use of symbols	Dictionary words	
Not easy to guess	Not complicated	

Example: 01Dl2bB57Ss! "Oh I do like to be beside the seaside!"





# Computing

# 7.1 - Using Computers: Knowledge Organisers

7.1 - Using Compute	rs: Knowledge Organiser		Cloud Computing Advantages	Cloud Computing Disadvantages
Keywords E-safety			Backing up - data backed up in the cloud with a reliable provider can be more reliable than storing your information on a hard drive or USB flash memory stick.	Connection – the user can only access their information if they have a network connection.
Cloud Computing			Compatibility - documents and files are designed to be compatible across different machines and browsers.	Copyright – the user sometimes loses legal rights to their original material if they store it online.
Cloud	Collaborate	E-safety	Cost – the user doesn't need to buy the	Security - data stored online is
Cloud computing means storing and accessing data and	Sharing documents and working together online. Eg, having a	information (such as your date of birth) Avoid sharing your location on social networks eg snapchat	latests oftware as it might be freely accessible through web apps.	vulnerable to security attacks.
programs over the Internet servers instead of the hard drive on your computer. For example, using Microsoft office using Google Chrome instead of opening it on your computing directly.	people around the world and using the		Independence – the user can work with their files on different computers.	Software - web apps do not usually have as many detailed functions as a full software package.
			Reliable software - web software and browsers are updated online. The user doesn't have to download the latest updates.	Storage - it is not always possible to store more than a few gigabytes online with one provider, whereas it is possible to purchase a few terabytes of physical storage to save information at home.