

Knowledge Organisers

Term 3 and 4 Year 7

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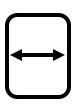
How to revise

Successful Learning Takes Place Over Time

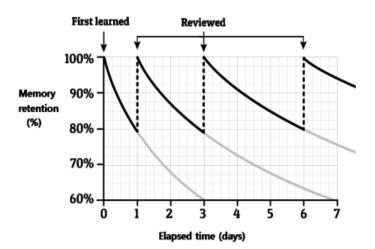


It's rare for anyone to be completely comfortable with something they learn for the first time. This could be a new piece of music, dance move, language or chemistry. We all have to practice. In most instances, the aim is to be at your optimum on the day it matters, e.g. the performance, race or exam. 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 was to 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 achieving 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

Flashcards

• List as many consequences of Y as you can

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:

	0 0 1 1 1 0 1 1 1 1				
Do: ✓make flashcards quickly. ✓put a single piece of information of each	Don't: Xspend more time making flashcards than actually using them. Xput lots of information	1861	groynes	osmosis	Where is the pharmacy?
flashcard. sort your flashcards according to your confidence with them (see below).	onto each flashcard. Xrevise the flashcards in the same order every time that you use them.	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?
 test yourself on the flashcards from memory. 	Xonly read through flashcards.				

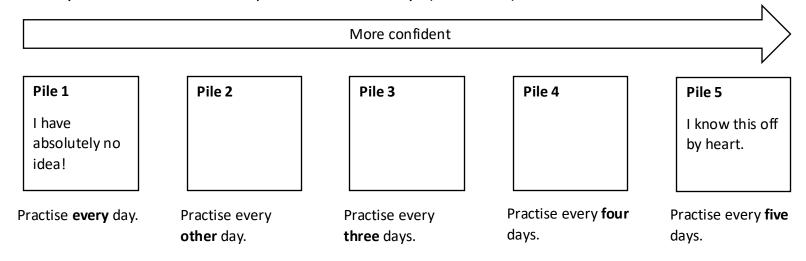
How to make flashcards:

- 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.

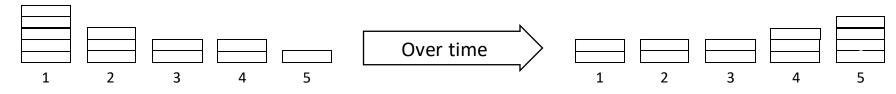
Answer 1	Definition 1
Answer 2	Definition 2
Answer 3	Definition 3
Answer 4	Definition 4
Answer 5	Definition 5

How to use flashcards:

- 1. 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.
- 3. Put the piles into numbered envelopes (1-5).
- 4. Test yourself on the different piles on different days (see below):



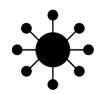
5. As you test yourself on the different piles, move the cards into different piles as you become more confident

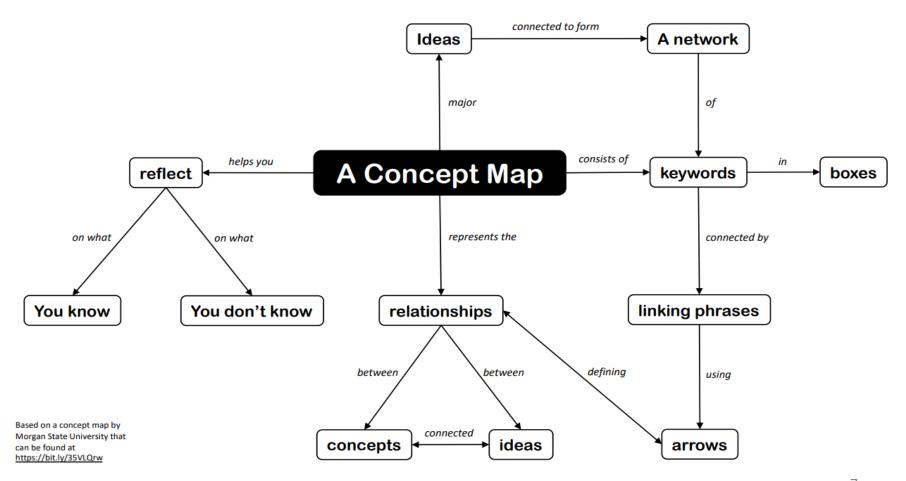


Useful resources:

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

Mapping









Key Words 1			
Protagonist: central character, usually a hero	Antagonist: central character, usually the enemy of the protagonist		
Apprentice: a person who is learning a trade from a skilled employer:	Benefactor: a person who gives money or other help to a person or cause.		
Deceptive : giving an appearance or impression different from the true one; misleading.	Malicious: characterized by malice; intending or intended to do harm.		
Tyrannical : exercising power in a cruel way.	Malevolent: having or showing a wish to do evil to others.		
Sinister: giving the impression that something harmful or evil is happening or will happen	Impoverished:(of a person or area) made poor.		
Maturity: a sign/behaviour which shows growing up; seriousness	Justice: fair behaviour or treatment		

			EXPECTATIONS		
Techniques					
Metaphor: A comparison between two things where one thing is identified as something else E.g. 'The moon is a ghostly galleon'	Personification: Where an inanimate object is described as having human characteristics E.g. The trees danced in the breeze	Symbolism: Where an image represents an idea E.g. the dawn of a new day represents hope	Imperative verbs: Words which are used to issue commands		
Reading Terms					
Inference:	at comes from	Deduction: An understandin	g hased on		

An inference that comes from identifying clues in a text

An understanding based on clues in a text

Connotation: An idea or meaning suggested by a word. Sometimes there may be several connotations to a word	Prediction: Clues in the text suggest a possible ending or next step
several connotations to a word	



	The plot 🔎
1-6	Christmas Eve, afternoon: Pip meets the convict (Abel Magwitch) who asks him to steal a file and wittles for him. Joe and Mrs Joe are introduced. Joe is lovely and Mrs Joe is shown to hit Pip for no reason. Guns signal escaped convicts; Pip steals food and equipment and suffers from "wild fancies" caused by his guilt. When Magwitch is caught fighting with Compeyson, he confesses Pip's crime.
7-13	Pip and Joe's limited education is compared. Miss Havisham requests Pip to visit. Mr Pumblechook takes Pip to meet Miss Havisham. He then meets Estella and falls in love. Estella bullies Pip and makes him cry. She highlights his poor breeding by calling him "a common labouring boy". Pip starts an apprenticeship with Joe which he resents. Estella is sent away to learn how to be a lady. Pip confesses to Biddy that he want s to become a gentleman.
14- 19	Pip is shown to look down on Joe and his lack of education. Joe is shown to be kind and thoughtful towards Pip. Mrs Joe is as saulted by Orlick which results in Joe fighting and Mrs Joe being disabled. She becomes a nicer person and Biddy moves in to care for her. Jaggers invites Pip to become a gentleman in London with "great expectations" from a secret benefactor.
20-26	Pip lives with Herbert Pocket, Miss Havisham's nephew and learns how to be a gentleman. He thinks Miss Havisham is his secret benefactor. He learns Miss Havisham's wedding story. Jaggers shows Pip, Molly his housekeeper as a bullied, low woman he saved. Pip doesn't realise d Molly is Estella's mother.
27-33	Biddy writes to Pip asking if Joe can visit him in London. Pip is condescending to Joe and looks down on him in front of Henry. Pip starts to think that Pumblechook is his patron. He visits Miss Havisham and declares his love for Estella. He waits for Estella in London where she is visiting.
34-39	Pip and Herbert accumulate large debts. Mrs Joe dies. Pip comes of age (November) and becomes responsible for his finances. Pip escorts Estella to Miss Havisham where he learns of her engagement to Bentley Drummond. He quarrels with Miss Havisham and Estella then leaves broken hearted. Pip is now 23. Magwitch returns and reveals he is Pip's benefactor.
40-44	Magwitch stays with Pip under the name Provis to disguise his identity. Jaggers confirms that Magwitch is the benefactor. Herbert advises Pip to get Magwitch out of the country. They learn about Magwitch's life. Pip declares his love for Estella again, but she is set to marry Drummond.
45-50	Pip feels he is being watched. Pip dines with Jaggers and learns that Estelle is married. Wemmick explains that Molly is Estella's mother, and that Magwitch is her father. Pip reminded Magwitch of Estella which his why he decided to help him. Miss Havisham confesses all and is killed in a fire at her house.
51-59	Jaggers explains Estella's adoption and advises Pip to keep it a secret. Magwitch's escape is thwarted. Compeyson is drowned and Pip is reconciled to his benefactor. Pip's wealth is forfeited to the crown. Magwitch is convicted and sentenced to death. Pip tells him of Estella. Pip becomes ill and is arrested for debt but rescued by Joe. Joe marries Biddy. Eleven years later Pip returns to Miss Havisham's house and finds Estella.



	The charac	ters 1			Т	he characters	3 2
Pip Pirrip	The Bildungsroman's protagonist, an orphan who serves as an apprentice to a gentle blacksmith, Joe. When he unexpectedly comes into a fortune, Pip grows haughty and extravagant in pursuit of a lifestyle genteel enough to meet the refined standards of Estelle. Pip is cruelly disloyal to Joe and Biddy, avoiding them because of their lower class. Pip learns to judge people on their internal rather than superficial standards and redeems himself by	Magwitch	The escaped convict that Pip meets in the churchyard as a young boy. Inspired by Pip's kindness as a young boy, Magwitch devotes his life savings to Pip. Cruelly swindled by Compeyson, he has lived in and out of prison. His criminal record is largely due to unfortunate circums tances, not character. He is kind, good-hearted	Mr Jaggers	A famous lawyer in London, Mr Jaggers is Pip's guardian and middle man between him and his patron. Mr Jaggers also works for Miss Havisham. He is rational, sharpminded and intimidating. He prides himself on neither expressing nor responding to human emotion.	Miss Havisham	The wealthy daughter of a brewer, Miss Havisham was abandoned on her wedding day by her fiance (Compeyson) and, traumatized. She preserves herself and her house in wedding regalia, shutting out the world for over twenty years. To get her revenge on men, Miss Havisham adopts and raises Estella to be beautiful and desirable but completely heartless. Miss Havisham is manipulative, bitter and until the novel's end unable to recognise anyone's pain but her own.
	repenting sincerely and reforming his personal values.		and generous.	Estella	The adopted daughter of Miss Havisham,	Biddy	An orphan Pip meets at the village school. Biddy moves into the forge to look after
Joe	Joe is the father figure for Pip. Married to Pip's harsh sister. Joe has no formal education but . Joe is loyal, generous and kind. He acts lovingly to Pip, even when Pip is ungrateful.	Mrs Joe	Mrs Joe is fiery, tyrannical and false. Obsessed with social status and reputation.		Estella is proud, refined, beautiful, and cold, raised by Miss Havisham to "wreak revenge on the male sex". Miss Havisham has raised her to lack a true human heart and she is unable to love.		Mrs Joe. Later she becomes a school teacher. She is humble, kind, moral and fiercely intelligent, absorbing knowledge without any formal education.



Themes			
Ambition and self-improvement	Social Class		
The theme of <i>Great Expectations</i> is quite simple: affection, loyalty, and conscience are more important than social advancement, wealth, and class.	Dickens explores the class system Victorian England, ranging from the most wretched criminals (Magwitch) to the poor peasants of the marsh country (Joe and Biddy) to the middle class (Pumblechook) to the very rich (Miss Havisham).		
Crime, guilt and innocence The theme of crime, guilt, and innocence is explored throughout the novel largely through the characters of the convicts and the criminal lawyer Jaggers.	Education Education allows for personal growth in the novel. Joe and Biddy show how education can be a good thing. Pip receives an education that allows him to advance into a new social position, but Pip's education improves his mind without supporting the growth of his character.		

to see the value of the unconditional love Joes gives him. He eventually makes up with Joe after understanding his errors. Estella is exposed to

learns from experience what it means to care about someone.

damaging values from her adopted mother, Miss Havisham, and gradually

Key Quotes Magwitch "Hold your noise!" called a terrible voice, as a man started up from among the graves at the side of the church porch. "Keep still, you little devil, or I'll cut your throat!" A fearful man, all in coarse grey, with a great iron on his leg. A man with no hat, and with broken shoes, and with an old rag tied around his head. Estella Though she called me "boy" so often, and with a carelessness that was far from complimentary, she was about my own age. She seemed much older than I, of course, being a girl, and beautiful and self-possessed; and she was as scornful of me as if she had been one-andtwenty, and a queen. "Look at me," said Miss Havisham. "You are not afraid of a Miss Havisham woman who has never seen the sun since you were born?" Joe Gargery "It ain't that I am proud, but that I want to be right, as you shall never see me no more in these clothes. I'm wrong in these clothes. I'm wrong out of the forge, the kitchen, or off th'meshes. You won't find half so much fault in me of you think of me in my forge dress, with my hammer in my hand, or even my pipe." Pip I took the opportunity of being alone in the courtyard, to look at my coarse hands and my common boots. ... They

as vulgar appendages.

had never troubled me before, but they troubled me now,



Using counters for addition and subtraction



$$O = -1$$

\bigcirc = +1	O = -1
-5 + 2 =	-5 + 2 = -3
	0 0
-5 + (-2)	-5 + (-2) = -7 OO O OO O
Subtraction is the same as	Addition of the opposite.
-4 - 2	$ \begin{array}{c} -4 - 2 \\ = -4 + (-2) = -6 \\ $
-4 - (-2)	$ \begin{array}{c} -4 - (-2) \\ = -4 + 2 = -2 \\ \hline $

Multiplying and dividing negative numbers

Positive	×	Positive	=	Positive
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Positive
$$\stackrel{\times}{\underline{\cdot}}$$
 Negative = Negative

Negative
$$\stackrel{\times}{\div}$$
 Positive = Negative

Negative
$$\stackrel{\times}{\underline{\cdot}}$$
 Negative = Positive

-4×3	-12
-4×-3	+12
4×-3	-12
$(-3)^2$	+9
$-20 \div 4$	-5
$-20 \div -4$	+5
20 ÷ −4	- 5

Priority of operations

Draw the pyramid of order of operations	() 1
Calculations on the same row of the pyramid are done	Left to right
10 - 5 + 2	$ \begin{array}{rcl} 10 - 5 + 2 \\ = & 5 & + 2 \\ = & 7 \end{array} $
12 ÷ 3 × 5	$ \begin{array}{r} 12 \div 3 \times 5 \\ = 4 \times 5 \\ = 20 \end{array} $
Set your working out by	Writing the answer to the calculation that takes priority directly underneath
60 - 10 × 5	Multiplication first: $60 - 10 \times 5$ = $60 - 50$ = 10



Sequences

A sequence is	A list of numbers generated by a rule
A term in a sequence is	A number in the sequence
Term to term rule	Generates the next term in the sequence
Position to term rule	Generates a term in a sequence using <u>it's</u> position
Linear sequence (arithmetic	A term-to-term rule that is add or subtract.
sequence)	Linear sequences are "times table like"
Geometric sequence	A term-to-term rule that is multiply or divide
To find the next term in a Fibonacci sequence	Add the 2 previous terms
Find the next term in this Fibonacci sequence 2 2 4 6	2 2 4 6 <u>10</u> <u>16</u>
The term-to-term rule of 3 6 9 12 is	+3
The term-to-term rule of -3 -6 -9 -12 is	-3
The term-to-term rule of	+3
5 8 11 14 17 is	It is the three times table, add two
	The four times table, add three
Generate the first 4 terms of $4n + 3$	4, 8, 12, 16
	7, 11, 15, 19
Generate the 20th term of 4n + 3	n = 20
	$4n + 3 = 4 \times 20 + 3 = 83$
Difference	The gap between two terms in a sequence
Quadratic sequences	Have a constant second difference

Multiplying and dividing fractions

$\frac{1}{8}$ of 40	$40 \div 8 = 5$
$\frac{3}{8}$ of 40	$40 \div 8 \times 3 = 15$
To multiply fractions	Multiply the numerators, multiply the denominators
$\frac{3}{5} \times \frac{1}{4} =$	$\frac{3\times1}{5\times4} = \frac{3}{20}$
$3 \times \frac{1}{4} =$	$\frac{3}{1} \times \frac{1}{4} = \frac{3 \times 1}{1 \times 4} = \frac{3}{4}$
Reciprocal	The value you multiply by to make 1. Turn a fraction upside down.
What is the reciprocal of: a) $\frac{4}{7}$ b) 4	a) $\frac{7}{4}$ b) $\frac{1}{4}$
Division is the same as	Multiplying by the reciprocal.
$\frac{3}{5} \div \frac{1}{4} =$	$\frac{3}{5} \times \frac{4}{1} = \frac{3 \times 4}{5 \times 1} = \frac{12}{5}$
$3 \div \frac{1}{4} =$	$\frac{3}{1} \div \frac{1}{4} = \frac{3}{1} \times \frac{4}{1} = \frac{12}{1} = 12$
Which is greater: $\frac{1}{3} or \frac{1}{4}$?	$\frac{1}{3}$
Which is greater: $\frac{3}{10} or \frac{7}{10}$?	7 10
Steps to put fractions in order	A common denominator Compare the numerators
Ascending order means	Smallest to biggest
When answering a fractions question, the last step is always	Check if you can simplify your answer



Decimals and money

4 x 0.3 =	1.2
0.4 x 0.3	$= \frac{4}{10} \times \frac{3}{10} = 0.12$
0.2 x 3	0.6
0.2 x 0.3	$= \frac{2}{10} \times \frac{3}{10} = 0.06$
8 x 0.5	8 halves = 4
8 ÷ 0.5=	How many halves divide into 8 = 16
0.00	Dividing by a half doubles your answer
	Estimate by rounding 6 x 4 = 24
Work out 5.82 x 4.3	Work out 582 x 43
	Place decimal to make the answer close to 24
	Line decimal points up
	0.3
Ordering decimals	0.03
Put these in ascending <u>order</u>	0.33
0.3 0.03 0.33 <u>0.303 0</u> .35	0.303
	0.35
	Compare them left to right

£3 in pence	300p
1700p in pounds	£17.00 or £17
Ella wrote £4.5 on the answer line. The mistake is	Money has two decimal places: £4.50
Shuaib wrote £7.364 on the answer line. The mistake is	Money has two decimal places: round to £7.36
Ella wrote £4.5 on the answer line. The mistake is	Money always has two decimal places: £4.50
Shuaib wrote £7.364 on the answer line. What was his mistake?	Money always has two decimal places: round to $\pounds 7.36$
How many 20p pieces in £1?	$5 \times 20p = £1$
How many 10p pieces in £3?	$30 \times 10p = £3$

Proportion and best buys

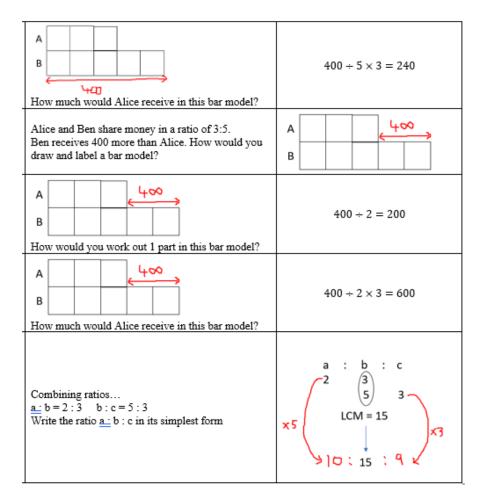
5 pens cost 75p. Find the cost of 3 pens.	5 75p ÷ 5 1 15p ÷ 5 ×3 3 45p ×3
If you get asked about which product is best value	Buy the same amount of each
	Split the page in half
	Pack of 4 Pack of 6
A pack of 4 toilet rolls costs £1.80 A pack of 6 toilet rolls costs £2.58 Which is better value? How would you show your working?	= 1.80) = 45p) = 4 = 6 (2.58) = 6
	Pack of 6 is better value
Currency conversion If £1 = \$1.2	$200 \times 1.2 = 240
How many dollars would I receive for exchanging £200?	
Currency conversion If £1 = \$1.2 How many pounds sterling would I receive for exchanging \$200?	$200 \div 1.2 = 166.66666667$ = £166.67 (round money to decimal places)
	1cm on map = 200cm in real life OR 1cm on map = 2m in real life
Map scales A scale of 1:200 means	
Recipe questions	Scale it up using a table Gingerbread men Flour
Ingredients to make 16 gingerbread men	16 180g
180 g flour 40 g ginger 110 g butter	8 90g
30 g sugar	×3 24 270g ×3

Simplify 12:18:30	+6 \(\frac{12 : 18 : 30}{2 : 3 : 5} \) +6 Divide all parts by the same amount.
Write 3:9 in the form <u>1:n</u>	+3(3 9)+3
If <u>a:b</u> :c = 2:3:5 what fraction is b?	3 10
If the question says share into a ratio 2:3	Draw a bar model
Alice and Ben share £400 in a ratio of 3:5 How would you draw and label the bar model?	A B HDD
How would you work out 1 part in this bar model?	400 ÷ 8 = 50
How much would Alice receive in this bar model?	400 ÷ 8 × 3 = 150
Alice and Ben share money in a ratio of 3:5. Ben receives 400. How would you draw and label a bar model?	A B HELD
How much would you work out 1 part in this bar	400 ÷ 5 = 80

model?



Ratio





1. What are pathogens?

Microbes and Disease

A pathogen is a micro-organism that causes diseases, for example bacteria, fungi or viruses.

Not all microbes cause diseases, some can be useful, for example, Yeast is used to make bread and alcohol.

6. How pathogens spread:

The spreading of microbes and disease is known as transmission.

1. Transmission by air

A cough or a sneeze can release millions of microbes into the air which can then infect somebody else.

2. Transmission by water

Dirty water can transmit many diseases, e.g. cholera, which can be transmitted by drinking.

3. Transmission by animals

An animal can carry a microbe from one place to another, e.g. a mosquito which spreads the **malaria parasite**.



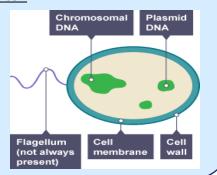
4. Transmission by contact

Many microbes can be exchanged from one person to another by **direct** or **indirect** contact:

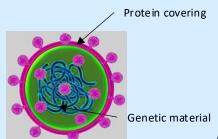
- direct contact by hand;
- indirect contact, e.g. by walking on a wet floor already contaminated by someone else who has athlete's foot;
- sexual contact.



2. Bacterial cell:



4. Virus particle



7. Stopping pathogens:

Cilia – tiny hairs found in nose and respiratory system that wafts and traps dust

microbes entering body

Mucus – in nose and

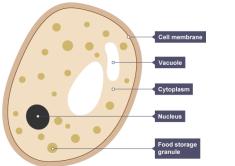
Skin – barrier that stops

respiratory tract that traps dust and microbes

Stomach – stomach acid kills microbes

Platelets – fragments in blood that form scabs to prevent microbes getting through cuts

3. Yeast cell (a fungus):



5. Microbe facts:

Bacteria	Fungi	Viruses
Unicellular organisms	Can be uni- or multi- cellular	Smaller and more simple than cells
Smaller and more simple than animal and plant cells	More similar to our cells than bacteria, larger	A protein coat surrounding some genetic material
Have not nucleus	Unicellular examples include yeast	Require a host cell to reproduce
Often have a flagellum for moving	Multicellular examples include mushrooms	



Energy Transfers

1. What is Energy

Energy is a quantity that is stored in many objects and systems.

The amount of energy stored is a measure of the amount of **work** that object or system can do. It is measured in **joules** (j).



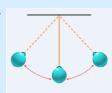
2. Energy Stores.

- Energy is stored in fuels as chemical potential energy
- Energy is stored in anything elastic when it is stretched or squashed, as elastic potential energy
- Energy is stored in any object that has been lifted up, because the object stores gravitational potential energy
- Energy is stored in moving objects as kineticenergy.
- Energy is stored in any object as heat energy.
 (Obviously, if it is cold, it doesn't store much heat energy!) This is also known as thermal energy.

4. Conservation of Energy

When energy is transferred from one store to another the **total amount of energy does not change**.

Energy cannot be created or destroyed. All that can be changed is how it is stored. This ideas is called the law of conservation of energy.



6. Heating.

If there is a difference in temperature between two objects, energy is transferred from the hotter object to the cooler one. When they are at the same temperature, we say that they are in **thermal equilibrium**. The methods of transfer are:

Conduction - Particles bump into nearby particles and make them vibrate more. This passes energy through the substance from the hot end to the cold end.

Convection - The particles in liquids and gases can move from place to place, particles with a lot of energy move, and take the place of particles with less energy.

Radiation – The transfers of energy to their surroundings by infrared radiation. The hotter an object is, the more infrared radiation it gives off. No particles are can work meaning radiation works in in space

7. Conductor and Insulators

A substance that transfers energy easily from the hot end to the cold end it is called a **conductor**.

Examples - Metals, water, diamonds.

A substance that does not transfer energy easily from the hot part to the cold part is called an **insulator**.

Examples – Plastics, air, wool.

3. Energy Transfers

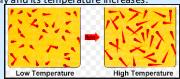
Examples to know:

- When a fuel is burned, energy in the chemical potential store
 of the fuel ends up in the thermal energy store of the
 surroundings.
- When an object falls off a shelf, the energy in the gravitational potential store is transferred to the kinetic energy store while it is falling.
- When the object hits the floor, all the starting energy in the gravitational potential store it ends up in the thermal energy store of the surroundings.
- When aspring that's been stretched is released, the energy in the elastic potential store is transferred to kinetic energy store, then to the thermal energy store of the surroundings.

5. Temperature

The **temperature** of an object is to do with how hot or cold it is, measured in degrees Celsius (°C).

This is due to the movement of the particles in the object. When an object is heated, its particles move more vigorously and its temperature increases.



8. Power

The amount of energy transferred is called 'work done' and is measured in joules (j)

Power is the amount of work done divided by the time it took to transfer all the energy. It is measured in **watts** (w).

To calculate the **nower** we use the equation:

$$power = \frac{work\ done}{time\ taken}$$

 $P = \frac{E}{t}$

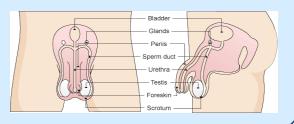
- Where:
 power (P) in watts (W)
- work done (E) in joules
- time (t) in seconds (s)



Human Reproduction

3. Male Reproductive System

Sperm cells are produced in the testes and these are located in a bag of skin located underneath the penis called the scrotum. Sperm cells travel out of the male penis when inserted into the vagina during sexual intercourse via the sperm duct. Sperm travel in semen; a liquid produced by glands.



6. Menstrual Cycle

Themenstrual cycle prepares the female body for pregnancy by causing eggs (ova) to mature and be released. It lasts for 28 days.



On about day 14, the mature egg cell is released from the ovary. This is called ovulation. If the eggcell does not meet with a sperm cell in the oviduct, the lining of the uterus begins to breakdown and the cycle repeats.

1. Puberty and Adolescence

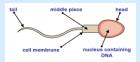
As a child develops into an adult, their body prepares for reproduction. Boys and girls begin puberty between the ages of 8-14. These physical and emotional changes are triggered by hormones released from the tests and ovaries. Girls develop much more quickly.

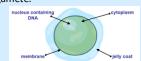
Some changes happen in boys only, some happen in girls only and some happen in both. Examples include underarm hair growth; facial hair growth; pubic hair growth; body odour; voice breaks; breasts develop; testes produce sperm cells; testes and penis get bigger; ovaries start to release egg cells; hips get wider; shoulders widen and growth rate increases.



4. Gametes

Gametes are sex cells. Sperm cells are the male gamete and egg cells (ova) are the female gamete.





Gametes have adaptations to increase the chances of fertilisation and successful development of an embryo. For example, sperm cells are produced in large numbers to increase the chance of fertilisation. Sperm cells have these adaptations:

- a tail to move them towards an egg cell
- many mitochondria to provide energy

7. Gestation and Pregnancy

A fertilised egg cell divides to form a ball of cells called an **embryo**. The embryo attaches to the lining of the uterus where it gets nutrients and oxygen. It begins to develop into a **foetus** and finally into a baby.

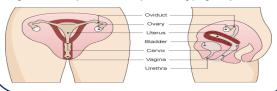
The foetus will grow an umbilical cord and a placenta. The placenta is responsible for removing waste substances, as well as providing oxygen and nutrients. The umbilical cord connects the foetus to the placenta.



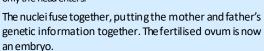
The foetus is protected from bumps and knocks by the amniotic fluid sac.

2. Female Reproductive System

Females have 2 ovaries where the eggs (ova) are produced and matured. When the egg (ova) is released from the ovary, it travels to wards the uterus along a tube called the oviduct. Ciliated cells line the oviduct to move the egg towards the uterus. The uterus is where an embryo (multiple cells) develops into a foetus (unborn baby). The cervix is a ring of muscle between the uterus and the vagina which keeps the foetus in place during pregnancy.



Fertilisation a sperm cell and an ovum fuse. Sperm cells are released into the female reproductive system during sexual intercourse (ejaculation). Only one sperm cell breaks through the cell membrane and enters the ovum, and only the head enters.



8. Birth

In humans, gestation lasts 40 weeks. This is the amount of time it takes for a foetus to develop into a baby. When the baby is ready to be born, the cervix relaxes and the muscles in the wall of the uterus contract. Muscle contractions increase in intensity and frequency, eventually pushing the baby out of the vagina. Unfortunately a baby can enter the world unhealthy. This can be due to inheriting diseases from one of the parents or due to lifestyle choices made by the mother:

Smoking leads to less oxygen diffusing from mother to foetus via the placenta.



Foetal Alcohol Syndrome (FAS) is when the mother drinks excessive **alcohol** whilst pregnant. This damages the baby's nervous system and brain.



People Around Me Year 7 French ARE 2

Que penses-tu?	What do you think?
J'adore ♡♡	Hove
J'aime ♡	l like
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 cheve ux	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	I am
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

Extra detail	Extra detail
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	ascar
Une barbe	a beard
Une moustache	a moustache

Quelle-est ta	What is your	
nationalité?	nationality?	
Je suis	I am	
Anglais(e)	English ——	
Français (e)	French	
Belge	Belgian	
Suisse	Swiss	- 1
Allemand(e)	German	
Espagnol(e)	Spanish	k
Somalien(ne)	Somalian	
Polonais(e)	Polish	
Portugais(e)	Portuguese 👳	
Bangladais(e)	Banglades hi 🚺	
Chinois(e)	Chinese 🔭	
Italien(ne)	Italian	
Gallois(e)	Welsh 🏰	
Pakistanais(e)	Pakistani	
Écos sais(e)	Scottish	
Irlandais(e)	Irish	
Americain(e)	American	

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

<u>Intensifiers</u>	<u>Intensifiers</u>
Très	very
Assez	quite
Un 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,

<u>Pronouns</u>	Avoir – to have	Être – to be
Je (I)	J'ai I have	Je suis - I am
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) (pl)	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 = my dad Ma mère = my dad

Mes parents = my parents

	Masc	<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
Le /la moins – the least

Jean est le plus intelligent
Marie est la moins sympa

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

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

Adjective agreement.

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

Il est paresseux – elle est paresseuse

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

Il est travailleur – elle est travailleuse

Il est gent**il –** elle est gent**ille**

Il 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

Year 7 French ARE 3 Knowledge Organiser



(1) Pronouns

je I
tu you (singular)
il he
elle she
nous we
vous you (plural)
ils they (m or m/f)
they (f only)

(2) THE RULES: Regular verbs

- Write down the infinitive (jouer/finr/vendre)
- 2. Chop off the ending ER/IR/RE.
- Write down what's left (the stem).
- Add the correct ending. Use the boxes below to find the correct ending

(3) ER verbs

je -e
tu -es
il/elle -e
nous -ons
vous -ez
ils/elles -ent

(4) IR verbs

Je -is
tu -is
il/elle -it
nous -issons
vous -issez
ils/elles -issent

(5) RE verbs

je -s tu -s il/elle nous -ons vous -ez ils/elles -ent

(6) Time Expressions

Le weekend On the weekend Le lundi, mardi On Monday/Tuesday Après le collège After school At break Pendant la récré Pendant la semaine During the week Normalement. Normally Quelquefois Sometimes Rarely Rarement D'habitude Usually Tous les jours everyday Toujours always

(7) Irregular verbs

J'ai I have I am Je suis I go/am going Je vais Je fais I do/make Je dis I say Je bois I drink Je dois I must J'écris I write Je lis I read Je mets I put

(8) Regular ER verbs

to buv

acheter

to help aider aimer to like arriver to arrive bayarder to chat chanter to sina chercher to look for commencer to start to dance danser demander to ask dessiner to draw donner to give to listen écouter étudier to study fêter to celebrate to win/earn gagner to play iouer manaer to eat marcher to walk nager to swim parler to speak porter to carry/wear to download télécharger travailler to work utiliser to use visiter to visit voyager to travel

(9) IR verbs

dormir to sleep
finir to finish
mentir to lie
partir to leave
sentir to feel
server to serve
sortir to go out

(10) RE verbs

attendre to wait defendre to defend descendre to go down entendre to hear fondre to melt perdre to lose répondre to answer vendre to sell

(11) Key Phrases

Qu'est-ce que tu fais?

What do you do/are you doing?

Qu'est-ce que tu fais pendant ton temps-libre ?

Was denkst du?	What do you think?
Ich liebe♡♡	llove
Ich mag ♡	l like
Ich magnicht 💝	I don't like
Ich hasse 💝 💝	I hate
Meiner Meinung nach	In my opinion
Ich denke, dass	I think that
Ich glaube, dass	I believe that
Ich finde	I find

Beschreib dich	What are you like?
Ich habe er/sie hat	I have He/she has
Haare 🦱	hair
lange 🐧	long
kurze	short
glatte	straight
lockige {}}	curly
wellige	wavy
afro 🥷	afro
blonde 👸	blond
hellbraune	light brown
Die Augen 💿 💿	eyes
blaue ••	blue
braune •••	brown
grüne 💿 🖜	green
dunkel/hell 👀	dark/light
schwarze 🔍	black
graue	grey
Ich bin	I am
er/ sie ist	He/she is
groß	tall
klein	short
dick	fat
schlank	thin
mittelgroß	medium size

7.2 People around me German Vocab List

/Beschreib dich Ich bin I am nett Kind angenehm Pleasant
nett Kind
111111
•
froh/glücklich Happy
ges chwätzig Chatty
schön Beautiful
lustig Fun
stark Strong
niedlich/süß Cute
hübsch/gut aussehend Pretty/Handsome
jung Young
perfekt Perfect
schnell Fast
reich Rich
klug Clever
schüchtern Shy
fleißig Hard working
traurig Sad
alt Old
langweilig Boring
nervig Annoying
ernst Serious
schwierig Difficult
streng Strict
hässlich Ugly
laut Noisy
unhöflich Rude
schrecklich Horrible/Awful
faul Lazy
gierig Greedy
sportlich Sporty
fre undlich Friendly

Extra detail	Extra detail
Ich trage	l wear
Ich habe	I have
Brille	glasses
Piercings	piercings
einen Hijab	a hijab
Kontaktlinsen	contact lenses
Sommers prosse n	freckles
eine Narbe	a scar
einen Bart	a beard
einen Schnurrbart	a moustache



Connectives	Connectives
aber	But
obwohl	However
auch	Also
außerdem	Furthermore
weil/denn	Because
und	And

Was ist deine	What is your
Nationaltät?	<u>nationality?</u>
Ich bin	I am
Engländer(in)	English $+$
Franzose/Französin	French
Belgier(in)	Belgian
Schweizer(in)	Swiss +
Deutscher/Deutsche	German
Spanier(in)	Spanish
Somalier(in)	Somalian
Pole/Polin	Polish
Portugiese(in)	Portuguese 👰
Bangladescher (in)	Banglades hi 🛑
Chinese/Chinesin	Chinese
Italiener(in)	Italian
Waliser(in)	Welsh
Pakistani/Pakistanerin	Pakistani C
Schotte/Schottin	Scottish
Ire/Irin	Irish
Amerikaner(in)	American
• •	

<u>Intensifiers</u>	<u>Intensifiers</u>
sehr	very
ziemlich	quite
Ein bisschen	a bit
zu	too
äußerst	extre mely
wirklich	really

People around me! 7.2 Knowledge Organiser

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



Pronouns	haben – to have	sein – to be	l۲
<u>Pronouns</u>	naben – to nave	<u>sem – to be</u>	
Ich (I)	Ich habe I have	Ich bin - I am	
du (you/singular/fam)	du hast (you have)	du bist – You are	
er (he), sie (she)	er hat (he has), sie hat (she has)	er/sie est - He is/she is	
wir (we)	Wir haben (we have)	Wir sind – we are	
Ihr (you) (pl/familiar)	Ihr habt (you have) (pl)	Ihr seid – you are (pl)	
Sie (you/polite) sie (they)	Sie haben (you have) sie haben (they have)	Sie sind – you are sie sind – they are	

Comparisons

Add 'er' to the adjective. You can't add the word 'mehr' = more.

Er ist kleiner = he is smaller es ist billiger = it is cheaper

Exceptions are besser (better)/gr $\underline{\ddot{o}}$ ßer(bigger)/ $\underline{\ddot{a}}$ lter(older)

Superlative

You add an '-ste' to the adjective, sometimes '-este' to make it easier to say. Fred ist der Klein**ste** = Fred is the small**est.** Ellie ist die Laut**este**

Comparing Things

Joe ist älter als Fred = Joe is older than Fred

Joe ist weniger alt als Fred = Joe is less old than Fred

Joe ist so alt wie Fred = Joe is as old as Fred

Joe ist genauso alt wie Fred = Joe is just as old as Fred

Mein Name ist/ich heiße - My name is / I am called

Sie heißt - she is called

Er heißt – he is called

Sie heißen – they are called

To say "my" in German 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:

Mein Vater = my dad

Meine Mutter = my mum

Meine Eltern = my parents

	Masc	<u>Fem</u>	<u>Neut</u>	<u>PL</u>
my	mein	meine	mein	meine
your	dein	deine	dein	deine
his/her	sein/ihr	seine ihre	sein ihr	seine ihre

Adjective agreement.

Remember adjectives must agree with the noun. Normally you would add an 'e' to the adjective to make the plural but if the adjective comes after the noun it doesn't agree.

Ich habe lange Haare = I have long hair

Er hat braune Augen = He has brown eyes

But.....

Er ist klein = he is small

Sie ist faul = she is lazy

GERMAN VOCABULARY

7.3 My life at school

	Was ist dein Lieblingsfach?	What is your favourite subject?
	Englisch	English
100	Spanisch	Spanish
	Französisch	French
(E)	Theater	Drama
(%)	Kunst	Art
	Sport	PE
	Informatik	Computer Science
	Sozialkunde	PSHE
300	Geschichte	History
	die Musik	Music
X	die Technologie	Technology
Q	die Erdkunde	Geography
\$ \$	die Religion	RE
0000	die Mathe	Maths
Ţ	die Naturwissenschafte	Sciences

	Comment est ton uniforme?	What is your school uniform like?
	Ich trage	l wear
M	einen Blazer	Blazer
	einen Pulli	Jumper
	ein Hemd	Shirt
	ein T-shirt	T-shirt
_ W	eine Hose	Trousers
	eine Krawatte	Tie
	einen Rock	Skirt
**	die Socken	Socks
20	die Schuhe	Shoes
	eine Strumpfhose	Tights

Verben in der Schule	Verbs at school
lernen	To study
hören	To listen
chatten	To chat
arbeiten	To work
verbringen	To spend time
spielen	To play
sich ausruhen	To rest
chillen	To relax

©	zwölf Uhr			Es <u>ist</u>	. <u>Uhr</u>
elf Uhr zehn Uhr	12 1	ein Uhr	fünf vor 11	12	1 fünf nach
neun Uhr 9		2 zwei Uhr 3 drei Uhr	zenn vor 10		2zehn nach 3 Viertel
acht Uhr 8	_	4 vier <u>Uhr</u>	vor zwanzig 8		nach 4 zwanzig
sieben Uhr	⁷ 6	fünf Uhr	fünfundzwanzig vor	6	5 nach fünfundzwanzig
	sechs Uhr		VOI	halb	nach

Wie ist dein Lehrer/	What is your teacher
deine Lehrerin?	<u>like?</u>
sympatisch	Kind
nett	Pleasant
langweilig	Boring
organisiert	Organised
glücklich	Нарру
schwierig	Difficult
einfach	Easy
lustig	Fun
böse	Angry
streng	Strict
schlechte Laune	Grumpy
stark	Strong
schön	Handsome/ pretty
furchtbar	Awful
spannend	Exciting
jung	Young
alt	old
klein	Small
groß	Tall
perfekt	Perfect
schnell	Fast
reich	Rich
laut	Noisy
intelligent	Wise
ernst	Serious
schüchtern	Shy
fleißig	Hard working
traurig	Sad
nervig	annoying



People Around Me Year 7 Spanish ARE 2

¿Qué piensas?	What do you think?
Me encanta ♥♥	Hove
Me gusta	l like
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
Onduado	wavy
Afro 🦰 🦳	afro
Rubio	blond
Castaño 💿 💿	light brown
Los ojos	eyes
Azules 💿 💿	blue
Marrones 🍙	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

¿Cómo eres?	What are you like? / Describe
Describete	yourself
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
Emocio nante	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	I am	
Inglés/a	English 🛨	
Francés/a	French	
Belga	Belgian	
Suizo/a	Swiss	
Alemán/a	German	
Español/a	Spanish	
Somalí	Somalian 💌	
Polaco/a	Polish	
Portugués/a	Portuguese	
Bangladesí	Banglades hi 💮	
Chino/a	Chinese	
Italiano/a	Italian	
Galés/a	Welsh 🏰	
Paquistaní	Pakistani C	
Es cocés/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	
Realmente	really

People Around Me Year 7 Spanish ARE 2 - Knowledge organiser

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



26

<u>Pronouns</u>	Ser – to be	Tener – to have	
yo (I)	soy - I am	tengo - I have	
tú (you)	eres – You are	tienes – you have	
él (he), ella (she)	es - He is/she is	tiene – he/she has	
Nosotros/nosotras (we)	somos – we are	tenemos – we have	
Vosotros/vosotras (you) (pl)	soís – you are (pl)	tenéis - you have (pl)	
ellos/ellas (they)	son— they are	tienen – they have	

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)

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

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

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

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**<u>n</u> e.g. me encantan mis hermanos

Me llamo – My name is/ I am called

Se Ilama – he/she is called

Se llaman – they are called

Year 7 Spanish ARE 3 Knowledge Organiser



(1) Pronouns

yo I

tú you (singular)
él he
ella she
nosotros we
vosotros you (plural)
ellos they (m or m/f)
ellas

(2) THE RULES: Regular verbs

- 1. Write down the infinitive (bailar/comer/vivir)
- 2. Chop off the ending AR/ER/IR.
- 3. Write down what's left (the stem).
- 4. Add the correct ending. Use the boxes below to find the correct ending

yo

(3) AR verbs

yo -o
tu -as
él/ella -a
nosotros -amos
vosotros -áis
ellos/ellas -an

(4) ER verbs

yo -o tu -es él/ella -e nosotros -emos vosotros -éis ellos/ellas -en

(5) IR verbs

-0

tu -es él/ella -e nosotros -imos vosotros -ís ellos/ellas -en

(6) Time Expressions

Los fines de semana On the weekend Los lunes/martes... On Monday/Tuesday Después del colegio After school Durante el recreo At break During the week Durante la semana Normalmente Normally Sometimes A veces Raramente Rarelv Nunca never Todos los días everyday Siempre always

(7) Irregular verbs

tengo I have I am SOV I am (location) estoy I go/am going VOV I do/make hago salgo I go out I play juego quiero I want I think pienso prefiero I prefer

(8) Regular AR verbs

to walk

Andar

Ayudar to help Bailar to dance to look for Buscar Charlar to chat Caminar to walk Cantar to sing Comprar to buy Descargar to download Dibujar to draw Enseñar to teach Escuchar to listen Estudiar to study to wait/hope for Esperar to win/earn Ganar Hablar to speak Llegar to arrive Llevar to carry/wear Nadar to swim Necesitar to need Practicar to practice to take (photos) Sacar Tocar to play (instrument) Trabajar to work Usar to use Viajar to travel Visitar to visit

(9) ER verbs

to learn Aprender Comer to eat Beber to drink Comprender to understand Responder to respond Vender to sell to believe Creer Leer to read Correr to run Pretender to pretend

(10) IR verbs

Escribir to write Recibir to receive Describir to describe Descubrir to discover Abrir to open to allow Permitir Vivir to live Consumir to consume Discutir to discuss Compartir to share

(11) Key Phrases

¿Qué haces?

What do you do/are you doing?

¿Qué haces en tu tiempo libre? What do you do in your free time?

es / no es It's / It's not muy very

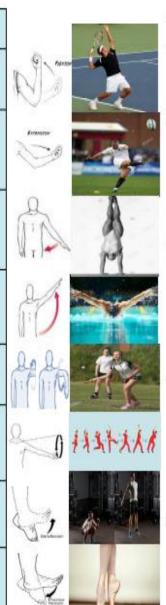
bastante quite
un poco a (little) bit

¡Está chupado! It's a piece of cake/easy! No es mi tema It's not my thing No es de mi interés It's not my thing

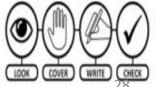


Analysis of Performance (Term 3)

Anatomical Movements		
1	Flexion	Decreasing the angle at the joint.
2	Extension	Increasing the angle at the joint.
3	Adduction	Limb moves towards the mid- line of the body.
4	Abduction	Limb moves away from the mid- line of the body.
5	Rotation	A circular movement around a fixed joint.
6	Circumduction	When the limb moves in a circle.
7	Dorsi Flexion	Bending the foot up towards the shin.
8	Plantar Flexion	Bending the foot downward towards the ground.



	Method	s of Performance A	Analysis
	Method of analysis	Explanation	Example
9	Verbal feedback	Spoken feedback used to improve performance levels.	
10	Tally chart	Visual information on the number of items or happenings.	Sport Votes from Football +++++ Soccer Busherhall
11	Peer observation	When someone else in the class watches you perform and feeds back to you.	





Components of Fitness (Term 4)

	Physical Components	Definition	Sporting example		Skill Components
1	Aerobic Endurance	The ability to exercise your cardio respiratory system for a long period of time.		7	Balance
2	Muscular Endurance	The ability to exercise your muscular system for a long period of time.		8	Coordination
3	Muscular Strength	The maximum force that a muscle or muscle group can produce.		9	Reaction Time
4	Flexibility	The range of movement around a joint.		10	Power (Explosive
5	Speed	The distance covered over time (metres per second		11	Strength) Agility
6	Body Composition	The ratio of fat mass to fat free mass in the body.	Body types		

	Skill Components	Definition	Sporting example
7	Balance	The ability to maintain a centre of mass above a base of support.	
8	Coordination	Being able to use two or more body parts at once to complete a motor task efficiently.	
9	Reaction Time	The time taken to respond to a stimulus.	
10	Power (Explosive Strength)	The combination of speed and strength.	A STATE OF THE PARTY OF THE PAR
11	Agility	The ability to change direction at speed without losing balance.	



Resistant Materials

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 Customer

is for Cost

is for Size

is for Safety

is for Function

is for Material

Anothetics much what does the product leak like? What is the Colouri Stoppel Testural Paterni Appearance Fault Weight Stylet

1 km = 1000 m

ACCESS FM - Helpshee

1 m = 100 cm 1 cm = 10 mm



Cost moons how much does the product cost to buy? How much closs it. Cost to buy? Cost to make? How much do the different moterials cost? Is it good value?



Customer mane who will buy or use your product? Who will buy your product! Who will use your product! What is their: Age! Gesder!

What are their likey! Diskkey! Needs! Preferences!



Environment man will the product offect the environment? is the product. Recyclobial touseable! Repainable! Surrainable! Environmentally Intendigl Bad for the environment?



GR's of Besigns Recycle / Revise / Repair / Robink / Reduce / Hafuse ine room have big or email is the product? What is the view of the preshed in millimaters inself is this the earner



cas os similar producta? Is à confortable to use? Does it fol Would it be improved if it was bigger or smaller? aty moon how safe is the product when it is used?



WE It he vale for the outpiner to uself Could they hart themselved! What's the correct and selest way to use the product! What are the risks!



Function record 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?



Naterial moore what is the product made out of?



What motorials is the product made frum? Why were these motorio wed? Would a different material be better? How was the product There are expended principal manufactures were undif

Testing

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.





It's better to use meterials from proposable respurces — ones that are replaced naturally as fast so see use them up. For example, pine from



pass yellow wood wrich is light weight, straight gramed and tacks figure. It reviets strinking and







Coping Saw

Tri-Square



whether they work well and if the design can be corrected or improved. **Bench Hook**



Pillar Drill

Remember to always suggest improvements when evaluating!

and finished products 7

constantly during the project.

Evaluation can take a variety of forms:



Evaluation

Whatever you have designed it is important to evaluate your work

General discussion with other pupils, staff and others.

Your personal views, what you think of existing designs.

Can you think of any other ways of evaluating your work?

Designers evaluate their finished products or prototypes in order to test

Questionnaires / surveys carried out at any time during the project.

Most important of all - what do you think of your designs, prototypes







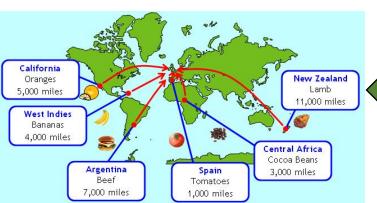
Target Market

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



Food Tech





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.



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.

Chopping board colour coding

Red - Raw meat

Blue - Raw fish

Yellow - Cooked meat

Green - Salad and fruit

Brown - Vegetables

White - Bakery and dairy

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?

Everywhere!

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

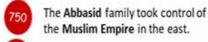
- <u>Cleaning</u> wash your hands properly.
- Cooking make sure you cook food properly or you could make someone very ill.
- · Chilling keep it chilly silly.
- <u>Cross contamination</u> keep raw meat and cooked food apart.

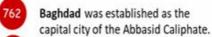
H History

Was life better under the Caliph or the King?

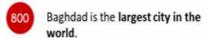


Key Dates









The House of Wisdom was established.

Baghdad has its own hospital.

Baghdad was destroyed by the Mongols.



History - Year 7 Knowledge Organiser 7.4

Key Places Baghdad

House of

Wisdom

Golden

Gate

Palace

Grand

Mosque

Established by the Abbasid Caliphs and was the capital of the Islamic World. It became a centre

of learning during the Golden Age of Islam.

The Grand Library of Baghdad. Home to academic works gathered from across the known world.

The palace was the Caliph's residence and was located in the centre of the round city of Baghdad.

The mosque was next to the Caliph's palace so that when people bowed down to pray they were bowing down to the Caliph.



Key Words

A member of the Abbas family, the ruling Caliphs of Baghdad.

Anatomy The scientific study of an animal or plan, or any of its' parts.

Arab Name given to the group of people originating from the Middle East and North Africa

The scientific study of space and the universe Astronomy

Caliph Spiritual leader of Islam, any of the former

Muslim rulers of Baghdad.

Caliphate An Islamic state led by a Caliph

Golden A period of cultural, economic, and scientific Age of flourishing in the Islamic World, dated from Islam the 8th century to the 13th century.

Someone who has excellent knowledge of a

particular subject.

Scholar



Key People

Ibn Sina

Doctor and scholar known in English as Avicenna (980-1037). Wrote a huge medical encyclopaedia known as the "Canon of Medicine".

Al-Razi



Doctor and scholar known as Rhazes (854-925). Helped identify the difference between smallpox and measles and influenced the hospital in Baghdad.

Caliph Al-Ma'mun



Caliph of the 'Abbasid Dynasty ruled 813 to 817 and he founded the House of Wisdom.

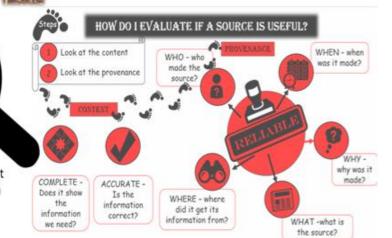
Caliph Al Mansur

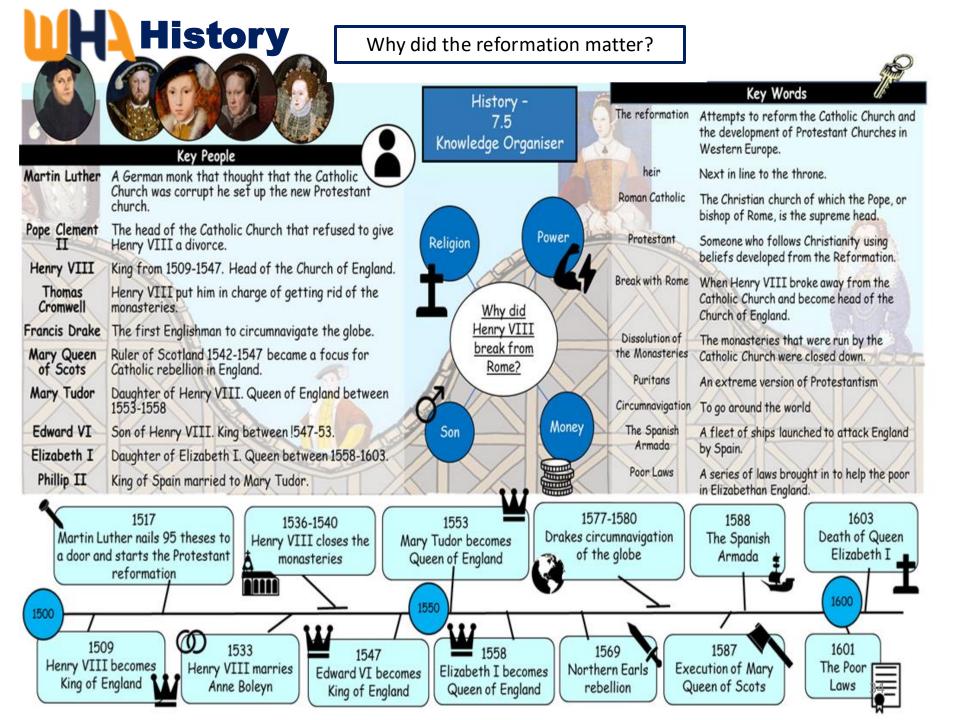


Founder of the Baghdad in 762AD

Historical Skills **Focus**

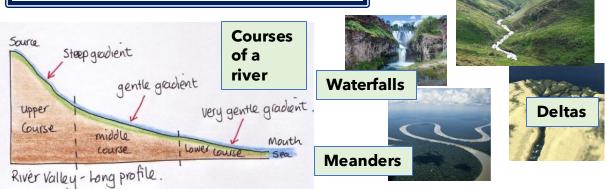
Inference - Making an inference is working out some information from a source (an educated guess).

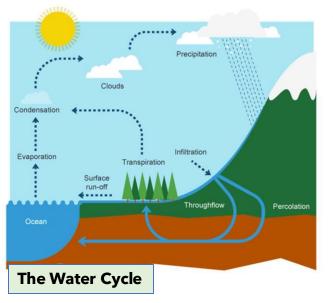






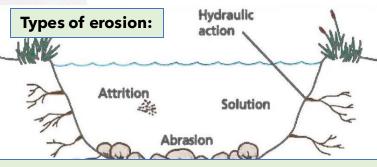
Geography How do rivers shape the landscape?





River Processes:

- Erosion: The wearing away of land
- Transportation: The movement of eroded land in the river
- **Deposition:** The dropping of eroded material by water



Keyword Definition

Evaporation

When sun heats water it changes into
water vapour and rises.

Condensation As air rises it cools and the water vapour forms clouds.

Precipitation	Water droplets that fall to the ground
	as rain, hail or snow.

Infiltration	Water soaks into the soil

Transpiration	When moisture is evaporated from plants.
Surface runoff	When water runs off the surface of the

Throughflow When water flows through the soil.

land.

Causes

In the winter of 2013/14, the Somerset levels experienced very sever and extensive flooding. Several factors contributed to the flooding which include:

- Heavy rainfall over a short period of time
- High tides
- Dredging (Lack of)

Flooding in the Somerset Levels

	Impacts/Effects			
Social	Environmental	Economic		
Over 600 homes flooded	Ecosystems destroyed	Cost of damage was £10 million		
People evacuated from their homes and put into temporary a	Limited food supplies for animals	Many people couldn't go to work as jobs were disrupted and		



ccommodation





roads closed

due to flooding

V-shaped valleys



Climate

Biodiversity

Permafrost

populated

Geography

Is Russia a vast wilderness?



Definition

Line of latitude at 66 degrees north Arctic circle of the equator

A large community of plants and **Biome** animal found

> The average weather conditions over a long period of time

A graph showing the temperature Climate graph and rainfall for a location over a year

An area of land managed to protect Nature reserve its physical features The number of different plant and

How plants and animals have Adaptation changed to survive in a particular

animal species in an area

environment A layer of permanently frozen

Population The number of people on average in distribution a given area (usually 1 square km)

Sparsely Few people live there

ground

Densely Lots of people live there populated

Tundra biome



Russia's population density on a map

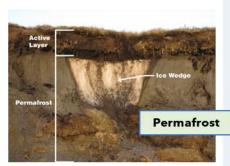




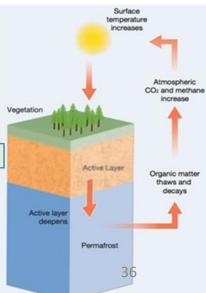
Covering 17 million square kilometres, Russia is the largest country in the world. It is 70 times the size of the UK and twice the size of the USA. Russia borders 14 nations and spans 11 different time zones.

Moscow's climate graph





- Tundra comes from the Finnish 'tunturia', which means barren or treeless land.
- Trees do not grow in the tundra because the ground is permanently frozen 25-100cm down.
- Tundra is a biome where the ground stays frozen for most of the year and there is very little precipitation.
- Tundra environments are found in the Northern hemisphere surrounding the Arctic Circle where temperatures stay below 0°C most of the year.





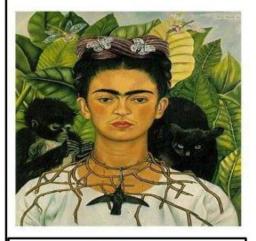
Year 7 Portraiture Knowledge Organiser

Content: In this project you will

Develop knowledge- of some different styles of portraiture

Understand-what inspired artists to create their work and how to write about the work Develop skills- drawing, shading, painting, and showing the influence of other artists in your own work and presentation

Outcome- a Frida Kahlo inspired self-portrait



Frida Kahlo...

Was born in Mexico and became a painter, following a serious road accident, which left her with life changing injuries.

A third of her work was selfportraits and she used them to show her suffering of injuries and her marriage.

She was married to the famous artist Die- go Rivera.



Roy Lichtenstein...

Was one of the leading artists of the Pop movement.

His work was inspired by comic strip art and was humorous in a tongue-incheek way.

He created the Ben Day dots which can be seen in many of his artworks.

Keywords:

(Self) Portrait An artistic representation of a person, in which the face and its expression is the focus Continuous Line Drawing made from one line where you don't lift your pen or

Contour Drawing An outline Blind contour Look at the subject and not at your paper whilst drawing

Tone from dark to light Form a three dimensional shape

Sculpture a 3D piece of art made from any material Proportion the relation of size between objects Symbolism- using an object to represent a meaning

Art Movement: a period of time when popular art shares similar styles

Movement: Consider from the options, what Art movement they belong to.









Assessment:

(D) Demonstrate a deepeningknowledge, understanding and skills (O+)On Track- Demonstrate someknowledge, understanding and skills (O-)On Track- Demonstrate someknowledge, understanding and skills (Y)Yet to be on Track- developing some-knowledge, understanding and

(A)Earlier Stage-minimal knowledge, understanding and skills

Analysis

All artist research pages should be annotated

Artwork-

Artist name

- Describe the work-what does it look like? Use the formal elements i.e. colour, line etc.
- What techniques/materials were used?
- What is your opinion of the work? How is it relevant to your own idea?

Sentence starters

I like/dislike the way the artist has used...because I think the colour scheme used is effective because... I think the artist has been inspired by...because

Evaluation of Your Artwork-

What inspired you to create the piece?

What techniques did you use and why?

What does it mean to you? How is it relevant to your idea?

Sentence starters

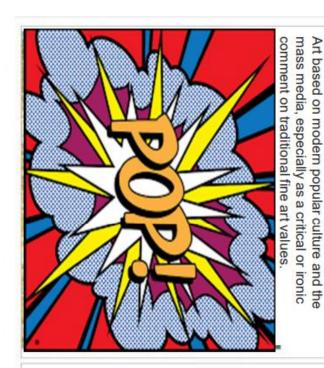
The technique I have used is... The skill/technique I found most difficult was...because...

I think my work is successful because...

37



TERM 3 Portraiture



Art Movement

POP ART





by mixing primary and secondary colours

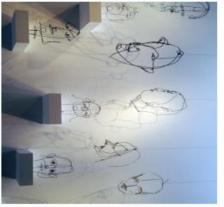
Tertiary colours are made

LOUR

Picasso



Alexander Calder

























zecougail colours



Art TERM 4 Under the Sea

Year 7 Under the Sea Knowledge Organiser

Content: In this project you will...

Develop knowledge- of sea creatures

Understand-how other artists are inspired to create their work and how to write about the work.

Develop skills- drawing, shading, painting, and showing the influence of other artists in your own work and presentation.

Outcome- A sea life study

















Zen Tangle...

Zentangle patterns are unplanned, abstract, black-and-white art made up of beautiful patterns. According to the trademarked Method, Zentangle true Zentangles are always created on 3.5-inch (8.9 cm) square tiles and are always done in black ink on white paper.

Scratch Art: Scratch Art is a graphic technique. It is used to create value drawings. ... Using scratch tools (stylus, scratch brush, or scratch knife) you can create value drawings by scratching off the black ink and revealing the board beneath. This technique is similar to drawing with white pencil over a black paper.



Paul Klee...

Paul Klee created 'Fish Magic' in his later years.

Fish Magic was created on a panel using watercolour and oil. It combines elements of the sea (fish), the earth (flowers), and the galaxy (moon and planets). It's as if Klee was communicating a complex story of the earth, sea and sky on canvas, portraying them in a romantic, surreal and expressionist mood.

Keywords:

Collage - a piece of art created by combining photos, clippings or small objects onto a surface

Typography - is the art of arranging letters and text in a way that makes the copy legible, clear; and visually appealing to the viewer. Sketchbook-a book or pad with blank pages for sketching and is frequently used by artists for drawing or painting as a part of their creative process

Line Drawing - any image that consists of distinct straight or curved lines to represent twodimensional or threedimensional objects.

Render - Coloring your art, shading it, or adding texture to it to add realism and a 3D quality

Observational Drawingdrawing what you see Value Drawing - a black and

Assessment:

white drawing

(D) Demonstrate adeepening knowledge, understanding and skills 10+10n Track- Demonstrate someinowledge, understanding and skills 10-10n Track- Demonstrate someknowledge, understanding and skills (Y) Yet to be on Track- developing some-knowledge, understanding and

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Sentence starters

The technique I have used is... The skill/technique I found most difficult was because I think my work is successful because....



TERM 4 Under the Sea





MH7	Religion & World Views	
	Key concept	Definition

iteliäi	
World	View
Key concept	Definition

1101191	
World	View
Key concept	Definition

World	View
May someont	Definition

1. Agape

4. Mirade

5. Parable

One type of love. Love for our neighbour, or selfless/unconditional love.

neighbour.

Jewish laws (613 of them!)

person.

the fulfilment on Earth of God's will.

Good news: Jesus announces that we can all be at one with God and with each other. There

A type of story with a teaching in it. For example, the Good Samaritan teaches us to love our

Kingdom of God, also called Kingdom Of Heaven, in Christianity, the spiritual realm over which God reigns as king, or

When Adam and Eve ate the forbidden fruit from the tree of knowledge in the Garden of Eden, they 'fell away' from

To be in God's presence when we die. Christians believe you can only go to heaven by living a good life/being a good

The belief that God created the world and that it was perfect, Adam and Eve lived with God in the Garden of Eden.

God, they were thrown out of the garden and the close relationship humans had with God was destroyed.

are four books in the Bible recording the life of Jesus: Matthew, Mark, Luke and John.

The one who comes to save people. Christ is the Greek word for this.

An action that goes against what God wants for us. Going off course.

The action of showing you are truly sorry and regret something you have done.

An event that breaks the laws of nature.

The title given to Jesus, this is also treated as a name.

Jesus' mission in the world; what he was here to do

To overcome a wrong action against you and offer forgiveness.

2. Gospel

3. Messiah

8

9

10

11

12

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15



2	
	Br
í	fo
	Kingdo God

P	À À À
	Jan Jan
าโ	fo
	Kingd God
	Christ

3	6. Sin
0	
Kingdoi God	m of
Christ	
Repenta	ance

Mitzvot

The Fall

Heaven

Creation

Ministry

Forgiveness



The Parables

16. The Good

Samaritan

left him for dead. Luckily a priest came by but when he saw the man, he walked by on the other side of the road. Then, a Levite (a holy man) walked by, but also crossed the road to avoid him. Then a Samaritan (who is from the neighbouring village Samira - Jewish people and Samaritans usually hate each other) came by where the man was; he took pity on him. He went to him and bandaged his wounds. Then he put the man on his own donkey, brought him to an inn and took care of him. Jesus was teaching us to 'love our neighbour as much as we love ourselves, and that anyone can be your neighbour.

All the people in the world will be gathered in front of Jesus, and he will sort the people into two groups just like a shepherd

at his right hand, "You are blessed by my Father. Come into the wonderful kingdom that God has prepared for you because

sorts the sheep from the goats. He will put the sheep at his right hand and the goats at his left. Then Jesus will say to the people

A Jewish man was travelling from Jerusalem to Jericho, when he was attacked by robbers. They took his clothes, beat him and

17. The

Sheep and the Goats

when I was hungry, you gave me food. I was thirsty and you gave me something to drink. I was a stranger and you welcomed me. I was naked and you gave me clothing. I was sick and you took care of me. I was in prison and you visited me." "Truly I tell you, whenever you did it to anyone, even unimportant people, you did it to me because they are all members of my family." Jesus was teaching people that by helping other human beings, you are worshipping and serving God.

Miracles

18

Feeding the 5000 (Matthew 14:13-21) One day there was a group of 5000 people who had gathered to listen to Jesus. At dinner, rather than send them home, Jesus gathered food from just one little boy who had brought five small loaves of bread and two fish, not enough for 5000! But Jesus took the food and blessed it, he broke it into pieces. The disciples passed out pieces to the people and there was enough to feed everyone with some leftover.

19

Healing a Paralyzed Man (Luke 5:17-26) Once there was a man who could not walk. He wanted to see Jesus so his friends carried him on a mat. The friends lowered their friend through the roof of the house that Jesus was in. When Jesus saw the man, he said, "Friend, stand up! Pick up your mat, you can walk home!" The man got up, picked up his mat and walked home thanking God.

Walking on Water (Matthew 14:23-33) In the morning, Jesus' disciples saw him walk towards their boat on the water. 20 The disciples did not know it was Jesus or a ghost, but Jesus said, "Don't be afraid. It is I." Peter said, "If it is really you, tell me to come to you on the water." "Come," said Jesus. So Peter got out of the boat and started toward Jesus – he was walking on water too!



Religion & **World Views**

Allah	One God, who has no equal.
Islam	Peace, through submission to God
Sunnah	A saying, action or a practice attributed towards the Prophet Mohammed (pbuh)
Revelation	This is where God has revealed himself to a person. For example the Night of Power
Ummah	Worldwide family of Muslims
Religious Experience	Something that can only be explained by the existence of

The Qu'ran

Muslims believe it is the final word of Allah (God) and is perfect. The Qu'ran is the host text in Islam.

It was given to Mohamad by the Angel Gabriel over 23 years. Muslims believe that Allah

has given them a complete guide for how to live their life.

Mohamed (pbuh) was born in Mecca in 570CE. His father died before he was born. His mother died when he was 6. When he grew up he became a trader. People said he was honest in business.

He married his employer, a rich and independent woman called Khadijah. Mohamed's family believed in one God, but this was unusual at the time.

One night, Mohamed was in a cave praying when he heard the words of Allah, spoken by the angel Jibril (Gabriel). Mohamed (pbuh) had never been taught to read or write, but he told others the exact words that Allah said. These words were written down. This became the Quran.

Mohammed began to preach to the people. He said "stop worshipping all these statues. There is only one God." But the people of Mecca would not listen to him. They tried to kill him. so when he was invited to, he journeyed to a city called Medina, this is called the hijra.

In Medina, Mohammed (pbuh) was welcomed and he had the first mosque built so that people could go there to worship Allah. He became the leader of the new community: The Ummah.

Mohammed (pbuh) died when he was 63. He was buried in Medina and a mosque was later built around his tomb

The Sunnah

A saying, action or a

towards the Prophet

Mohammed (pbuh)

practice attributed

The life of Prophet Mohamed (pbuh)

The Night of Power

Happened in 610 in the cave of Hira The Angel Iibril communicates Allah's command to "Read" three tímes.

The first Surah's (verses of the Qur'an are revealed to Muhammad. Muslims regard this as the most important event in history.

The Night Journey

"Happened in about 620" The Angel Jibril takes the Prophet from the Ka'ba to Jerusalem on a winged horse (Al-Burag.) Muhammad leads the other Prophets in prayer.

Muhammad is taken through the seven levels of heaven to meet Allah Allah gives the ummah the gift of compulsory prayer (Salah)

The Hiira

"Happened in about 622"

Muhammad was invited to Yathrib by neighbouring tribes.

Muhammad escapes, the people that would kill him, in the dead of night with Abu Bakr.

Muhmmad hid in a cave from the Meccans who followed, trying to kill

Allah saves the Prophet when he commands a spíder to spín a wen at the cave entrance and a bird to build a next there.

and to settle our quarrels through the

> People with money should help the poor. "He is not a Muslim who eats his fill while his brother goes hungry"

Stop having wars and feuds.

There is **only** one God. Idols should be destroyed.

Muhammad

What the Prophet taught:

said all people are "equal like teeth on a comb", whatever their colour or background.

Mohamed's Constitution of Medina taught that people must not -1.Act out of anger.

2. Hate, envy or provoke each other. 3.Spy on each other or betray each other's trust.

4. Drink alcohol or gamble. 5.Cheat each other.

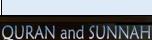
6.Charge interest on money loaned to those in need. 7. Pay bribes to get what is lawfully

not yours. 8. Kill unwanted babies either before or after birth.

9.Be cruel to animals.

The constitution of Medina is considered to be the first declaration of human rights

People who live good lives will go to paradise. Those who get rich by making others suffer will go hell.



The Prophet Peace be upon him said: have left behind two things. you will never go astray as long as you hold fast onto them

The Quran and Sunnah"

The Hadith

A collection of the sayings of the Prophet Mohamed (pbuh)

"Paradise lies at the feet of your mother."

It's Sunnah!

Give charity.



Wish for your brother what you

wish for vourself."







Walk to the masiid with tranquility





"Those that show the most perfect faith are whose who are kindest to their families."





Drama

Block 2 – Script & Character



Script & Character

Knowledge and understanding of the essential skills required for the development of a performance to a quality standard, as laid down by the conventions of a script in practice.

		Key Words – Physical and Vocal Skills
1	Body Language	How a person used their body to communicate how they are feeling.
2	Gait	How narrow or wide a person's stance (legs and shoulders) is to show their level of confidence i.e. the more confident a person is the wider gait they tend to have).
3	Gesture	Hand or head movement to back up dialogue or to be used instead of dialogue e.g. thumbs up to say that something is good.
4	Mannerism	Idiosyncrasies and habits that are particular to us. We might fiddle with our hair or shift our weight from one foot to the other. It's important that you're able to remove any habits of your own that might interfere with characterisation.
5	Energy	The term 'energy' in drama is used to describe how an actor uses movement, gestures, gait and posture to show the type energy their character has.
6	Body tension	How relaxed or tensed an actor's muscles are.
7	Posture	How tall a person stands or sits e.g. hunching or standing tall with their head held high.
8	Eye contact & focus	The state in which two people are aware of looking into one another's eyes, or where the eyes are focused.
9	Use of space	The way the actor moves around the performance space.
10	Status	The importance of a character compared to the other characters on stage.
11	Facial Expression	How a person uses the muscles in their face to show how they are feeling e.g. frowning to show that they are sad.
12	Volume	This is how loud or quiet a performer speaks. This can range from a Stage whisper to shouting really loud. The way in which an actor uses volumes helps show the audience what mood the character is in as well as what the situation is.
13	Pitch	How high or low.
14	Pause	A moment of silence or stillness used for effect.
15	Pace	Speed of delivering lines/dialogue.
16	Diction	Diction is how clearly you speak.
17	Tone	This is how an actor speaks to show what mood their character is in e.g. Happy, sad, angry etc.



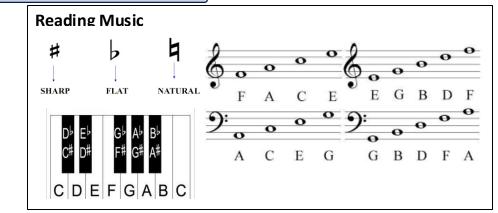
What makes a great composer?

Key Words

Flat
Sharp
Chord
Solo
Duet
Trio
Ensemble
Middle C
Adagio
Moderato
Allegro

Musical Elements

Dynamics (volume)
Rhythm (duration of notes)
Tempo (speed)
Context (background info)
Structure (sections)
Melody (organisation of pitches)
Instrumentation (instruments & voices)
Texture (layers)
Harmony (chords & key)



Piano hand position





Note Durations

- Semibreve (4 beats)
 - Minim (2 beats)
- Crotchet (1 beat)
- Quaver (½ beat)
 - Semi-Quaver (¼ beat)

Periods of musical History

- Baroque Era 1650-1725
- Classical Era 1725-1810
- Romantic Era 1810-1900
- 20th Century Era 1900 onwards.

Instrument Families

Strings (Violin, Viola, Cello, Double Bass)
Woodwind (Flute, oboe, clarinet, bassoon)

Brass (Trumpet, French Horn, Trombone, Tuba)

Percussion (Timpani, Bass drum, Snare drum, triangle, maracas, bells) Harpsichord (keyboard instrument from the Baroque era, before piano)





'Eine Kleine Nachtmusik' Wolfgang Amadeus Mozart (classical)



'Nocturne in Eb major Op.9 No.2' Frédérik Chopin (romantic)



'Peter Grimes' Benjamin Britten (20th century)



KEV VOCABIII ARV

Computer Science

Computational Thinking
How do we begin to solve problems
using a computer?

- 1. Decomposition: Thinking of all the things we need and tasks to perform in order to make a jam sandwich.
- 2. Pattern Recognition: Grouping these things into categories for example; ingredients, equipment and actions.
- 3. Abstraction: Creating an overview plan of how to make our sandwich. What are the main tasks that need completing?
- 4. Algorithm Design: Writing instructions for Rob-Bot to follow.
- 5. Debugging: Check your algorithm for errors and making necessary improvements.

DEFINITION

	KEY VOCABULARY	DEFINITION
1	Computational thinking	The steps you take to find the best solution to a complex problem.
2	Decomposition	Breaking a complex problem down into smaller, easier to solve problems
3	Abstraction	Focusing on the important information in a problem and ignoring the irrelevant details
4	Pattern recognition	Finding similarities and patterns in order to solve complex problems more efficiently.
5	Algorithm	A sequence of logical instructions for carrying out a task.
6	Program	Sequences of instructions for a computer written in programming language (e.g. Python).
7	Programming	The process of writing computer software.
8	Sequence	The specific order in which instructions are performed in an algorithm.
9	Selection	Allows for more than one path through an algorithm (IF and ELSE).
10	Iteration	The process of repeating steps. Loops (WHILE and FOR).
11	Flowcharts	Show the flow of an algorithm without lots of detail.

Name	Symbol
Start/end	
Arrows	\longrightarrow
Input/Output	
Process	
Decision	
~ ^ ^	

Computational Thinking