Name:







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How to learn over time

Successful Learning Takes Place Over Time

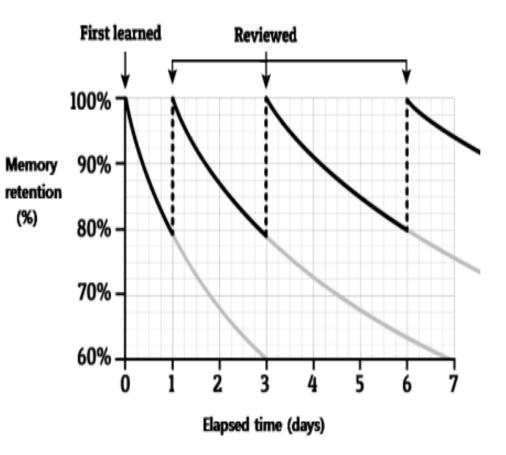


It's rare for anyone to be completely comfortable with something they learn for the first time. This could be a new piece of music, dance move, language or chemistry. We all have to practice. In most instances, the aim is to be at your optimum on the day it matters, e.g. the performance, race or exam.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

\frown	
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	•

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
- 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 quickly.
- ✓ …put a single piece of information of each flashcard.
- ...sort your flashcards according to your confidence with them (see below).
- …test yourself on the flashcards from memory.

Don't:

Х

Х

- ...spend more time making flashcards than actually using them.
- ...put lots of information onto each flashcard.
- X ...revise the flashcards in the same order every time that you use them.X ...only read through flashcards.

1861	groynes	osmosis	Where is the pharmacy?
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?

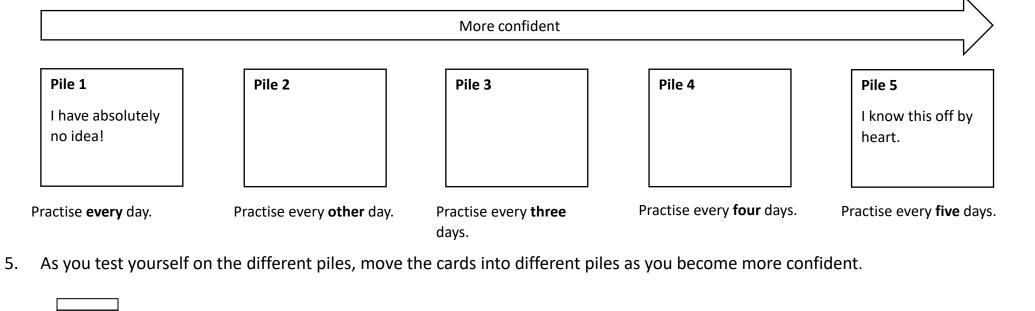
How to make flashcards:

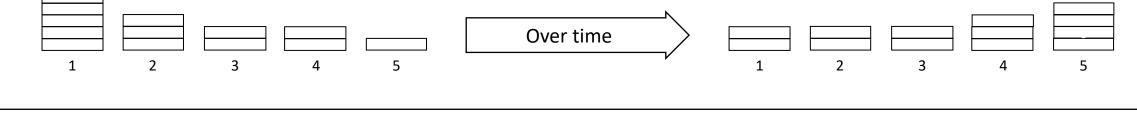
- You can by a set of flashcards or use a free website such as Quizlet.
- Find the information you want to put onto flashcards using your existing revision resources (e.g. a knowledge organiser).
- •Fold a piece of A4 paper into 10.
- •Write the questions on the top half of the paper.
- •Write the answers 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:

- 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):

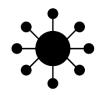


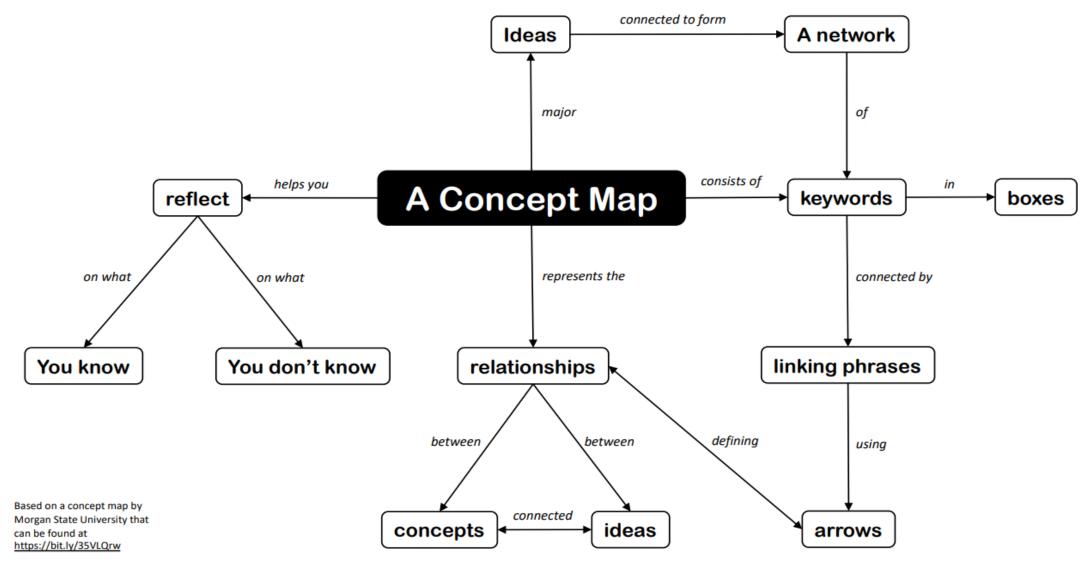


Useful resources:

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





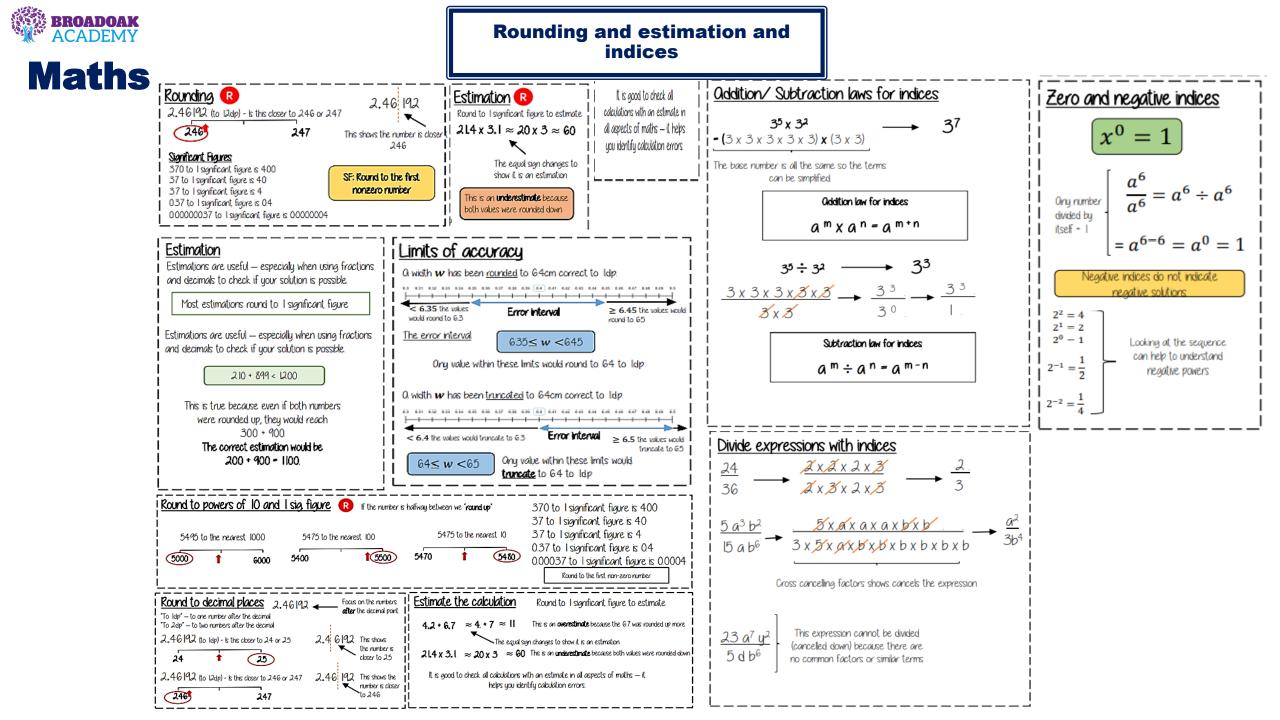


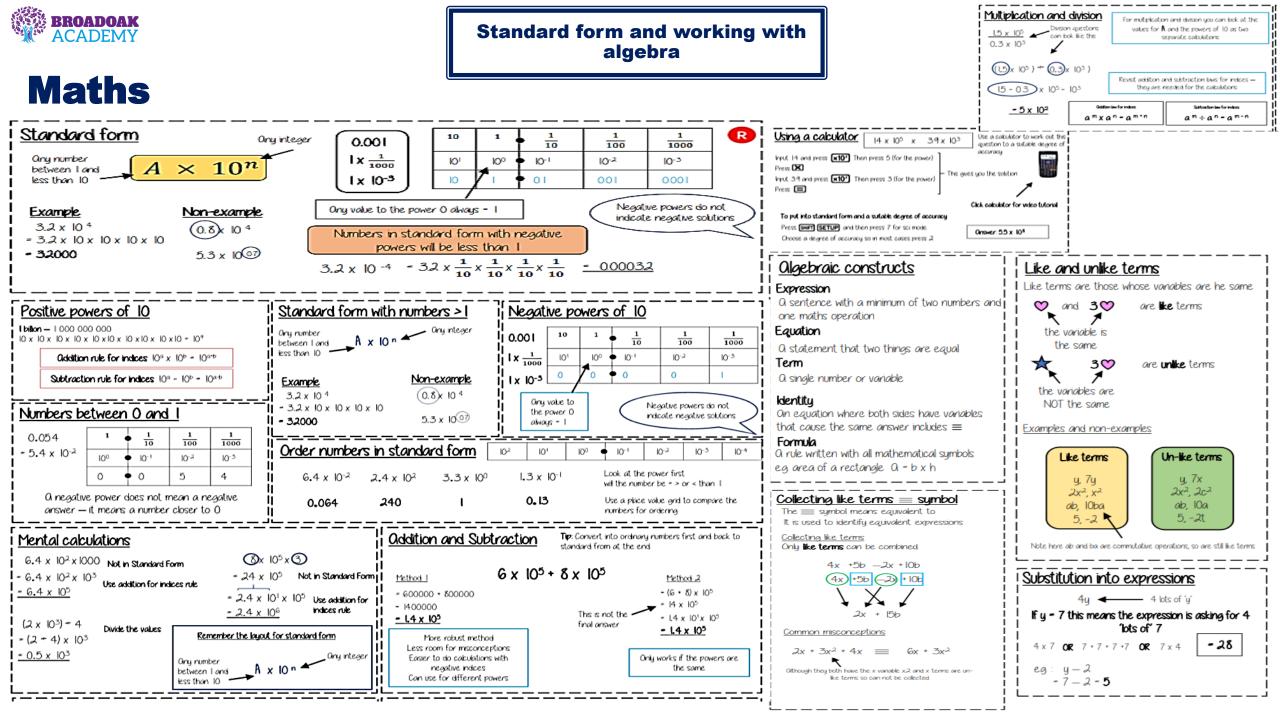
Merchant of Venice

Cha	racters		
6	Antonio	Antonio is the protagonist in this play. He is a merchant who we first encounter being depressed. He takes out the loan on Bassanio's behalf, putting his own life on the line. He has a bitter feud with Shylock but strong loyalty to the other Christian characters.	1
7	Bassanio	Bassanio is a Christian character who, having gambled away his money, approaches his friend, Antonio, to borrow money to win Portia's hand in marriage. Bassanio is seen as one of the main Christian characters in this play.	₿
8	Portia	Portia is a wealthy heiress from Belmont. Before passing away, her father established a casket challenge to find Portia a potential suitor. Portia defies expectations of women in Elizabethan England as she takes destiny into her own hands throughout the play.	Q
9	Shylock	Shylock is the antagonist within this play. He is a Jew who feels mistreated by the Christian characters. He establishes a bond with Antonio in order to gain revenge for the way that he has been treated, claiming a pound of Antonio's flesh if he does not meet the terms of the bond.	Ŵ
10	Gratiano	A comedic Christian character who seems to mirror Bassanio's actions within the play. He travels with Bassanio to Belmont where he marries Nerissa. He is often mocked by other characters for talking too much!	ഗ്
11	Nerissa	Nerissa is Portia's servant and best friend. She helps Portia with many of her schemes throughout the play, including disguising herself as a man in the court to save Antonio. Nerissa marries Gratiano.	Å
12	Jessica	The daughter of Shylock who is ashamed of her father's behaviours. Jessica runs away from her father, steals his money and converts to Christianity. She is in love with Lorenzo who she runs away with leaving Shylock heartbroken.	Л [*]
13	Lorenzo	One of the minor Christian characters. Lorenzo has a relationship with Jessica and, in the middle of the night, helps Jessica to run away from her father, Shylock.	v
14	Lancelot	A comedic character. Having once worked as a servant to Shylock, Lancelot leaves Shylock's service and instead works for Bassanio. He has a very strong relationship with Jessica.	3



Context		
Anti- Semitism	The hatred of Jews, or of their religion	
Usury	Jews were only allowed certain occupations that were deemed 'un-Christian'. Usury meant that Jews were seen as being increasingly greedy and were therefore immensely disliked.	P
Repressio	N Within society, many aspects of an individual may be repressed in order to conform to societal expectations. Homosexuality as well as attitudes towards religion would have been considered inappropriate and therefore likely not discussed.	
Women	Women were seen as being inferior within Shakespearian England. Often women were objectified for their beauty or wealth. Shakespeare presented women in a stronger way within his plays, perhaps to appease Queen Elizabeth	Ť

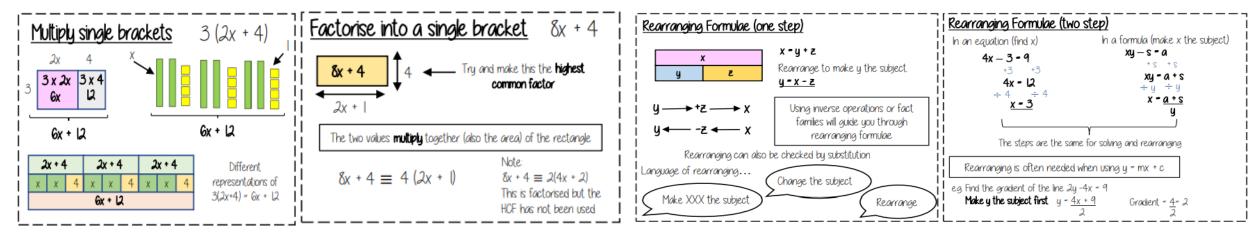




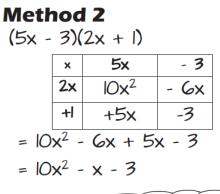


Expanding, factorising and rearranging

Maths



Method 1 (3x + 2)(5x + 3)= $|5x^2 + 9x + |0x + 6$ = $|5x^2 + |9x + 6$ Doi't Forget to simplify 9x + |0x = |9x



You must take care with the 'signs' in front of the terms

$$(4x - 7)^{2}$$

$$x 4x - 7$$

$$4x |6x^{2} - 28x$$

$$-7 -28x + 49$$

$$= |6x^{2} - 28x - 28x + 49$$

$$= |6x^{2} - 56x + 49$$



Working Scientifically

Types of Variable

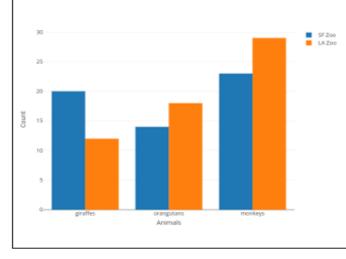
Independent - the variable that is changed

Dependent - the variable that is **measured**

Control - the variable that stays the **same**

Type of graph plotted for one qualitative variable and one continuous variable.

data



Qualitative - Worded data.

Continuous - Numbered data, can be any value.

Discrete - Numbered data, only certain values.

Tables

Units **only** go in headings

Time (s) Vol. gas (cm³)

Types of Error

Systematic – a problem with the method or equipment used. E.g. using a beaker to measure the volume of a liquid instead of a measuring cylinder.

The effect cannot be reduced by taking repeat readings.

 ${\bf Random}$ – whenever something is measured a random error is made. E.g measuring with a ruler.

The effect can be reduced by taking repeat readings.

Zero - caused by a piece of equipment not reading zero when it should. E.g. a balance. Either reset the piece of equipment or deduct the false reading from all measurements.

Line Graph Type of graph plotted for two pieces of continuous data Has a line of best fit. This may be a straight line or a curve (not join the dots)

Independent Variable (unit)

Key words

Accurate - close to the true value

Anomalous - a result that doesn't fit the pattern

Precise - small amount of spread around the mean

Resolution – the smallest reading on a piece of measuring equipment

Reproducible - if the same results are obtained by different people for the same investigation

Range - the biggest and smallest values of the independent or dependent variable e.g. 0-10 N

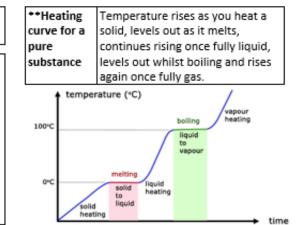
Volume - amount of a liquid Hypothesis - a prediction of what will happen in an experiment.

C1 & 2: States of matter and separating substances

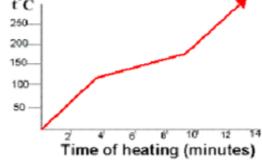
Lesson sequence

- States of matter 1.
- Mixtures 2.
- Filtration and crystallisation 3.
- Paper chromatography 4.
- Distillation 5.
- Core practical investigating inks 6. (CP7)
- Drinking water 7.

1. States of matter						
Particle	The tiny pieces that all matter is					
	made from.					
Atom	The smallest independent particle.					
	Everything is made of atoms.					
Molecule	A particle made from two or more					
	atoms bonded together.					
State of	Whether a substance is solid,					
matter	liquid or gas.					
Particle	A theory that uses the idea of					
model	particles to explain the differences					
	between solids, liquids and gases.					
Solid	Particle arrangement: Regular					
	pattern, touching each other.					
	Particle movement: Vibrating					
	around a fixed point.					
Liquid	Particle arrangement: Random,					
	touching each other.					
	Particle movement: Moving					
	around					
Gas	Particle arrangement: Random					
	Particle movement: Moving					
	quickly					
State	Solid to liquid = melting					
changes	Liquid to solid = freezing					
	Liquid to gas = evaporating or					
	boiling					
	Gas to liquid = condensation					
	Solid to gas = sublimation					
	Gas to solid = deposition					



	2. Mixtures
Element	A substance made from only one
	type of atom.
Compound	A substance made from two of
	more different elements bonded
	together.
Mixture	A substance made of two of more
	substances (elements or
	compounds) mixed but not bonded
	together.
Melting	Mixtures do not melt at a fixed
point of	temperature but melt gradually
mixtures	over a range of temperatures.
Heating	The flat sections of the heating
curves of	curves of a pure substance are
mixtures	sloped for a mixture.



3. Filtra	ation and crystallisation	+	4. Pape	er chromatography
Dissolve	When a substance mixes with a		Paper	A method of separating out
	liquid by breaking down into		chromatography	mixtures of liquids to show
	individual particles (atoms or			what is in them, by letting
	molecules).			them travel up a piece of
Soluble	When a substance can be			chromatography paper.
	dissolved by a liquid.		Chromatography	1. Draw pencil line on paper
Insoluble	When a substance can't be		method	2. Place sample spot on line
	dissolved by a liquid.			3. Place paper in solvent,
Filtration	A method of separating a			with solvent below pencil
	mixture of a liquid and an			line.
	insoluble solid by passing it			Allow solvent to soak up
	through a filter paper.			the paper
Residue	The solid that gets left behind in			5. Stop when solvent near
	the filter paper.			top, and mark how far it
Filtrate	The liquid that passes through			gets.
	the filter paper.		Stationary phase	The substance the solvent
How filtration	The filter paper contains many			moves through – usually
works	tiny holes. The water molecules			paper (Note: technically it is
	are small enough to pass			a thin layer of water from air
	through the holes, the solid			that is bound to the paper
	particles are too big and get			molecules)
	trapped.		Mobile phase	The solvent.
Solution	A mixture of a solute dissolved		R _f (retardation	R _f = spot distance / solvent
	in a solvent.		factor)	distance
Solvent	A liquid that has dissolved a		Uses of R _f	R _f enables you to identify a
	substance, for example water.			substance because for a
Solute	A solid that has been dissolved,			given solvent and stationary
	for example salt.			phases, it is unique to each
Crystallisation	A method of collecting the			substance.
	dissolved solid from a solution		Uses of	- To tell between pure and
	by heating it so that the solvent		chromatography	impure substances
	evaporates away.			- To identify substances by
Risks of	As the solvent boils away, the			comparison with known ones - To identify substances by
crystallisation	hot solution can spit, so you			calculating R _f .
	should wear safety goggles to			
	protect your eyes.		Solvent	
China	Copper China Coppe sulphate dish	r	Front	
	solution crystal		Separated	
Wire #	Beiling water #		Separated Dyes	1(
gauze			0,05	
			Filter Paper —	4
Burner 🚽 📥	Tripod stand Tripo		Ink Spots —	
			Solvent -	• BROAD
			L	ACADE



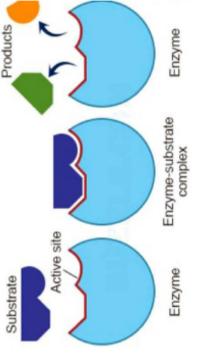
	5. Distillation	Thermome	ter	
Distillation	A method used to collect pure			Chromatogra
	liquid from a solution, such as			- calculate Rf
	getting pure water from	± ⊂		
	seawater.			
Condenser	A glass tube surrounded by a			Chromatogra
	glass jacket containing cold tap	Fractionati	ng Water out	results
	water. Used to condense gases	1 Column		
	back to liquids.	̶.	Condenser	
How	The solution is heated until it is			3.20.1
distillation	hot enough for the solvent to			
works	boil. The solvent is then passed	()Round- flask	-bottom Water in	
	through a cool condenser	\sim	Wallel III)	
	where it turns back to liquid.	۵) (
	The solute does not get hot	T		4
	enough to evaporate and stays			lä.
	where it is.	Bunsen		
Anti-bumping	Jagged grains of glass that are		ctical – investigating inks	
granules	added during distillation to	Aim	To separate inks using	
F	prevent violent boiling.		distillation and	
Fractional distillation	A type of distillation used to		chromatography.	Potable
distillation	separate mixtures of two or	Distillation set	Place some ink in a conical	water
Llow fractional	more liquids.	up	flask with a side arm and	Desalination
How fractional distillation	The liquid with the lowest boiling point boils first and can		delivery tube attached, place	Desamation
works	be collected, then the next boils		the flask on a tripod above a Bunsen burner. Place a boiling	Purifying
WOIKS	and so on.		tube in a beaker of ice and	seawater
Fractionating	A tall glass column used during		place the delivery tube into	Sector dec.
column	fractional distillation that gives		the boiling tube.	
column	a better separation of the	Run the	Light the Bunsen burner and	Uses of pure
	liquids by producing a	distillation	allow the ink to boil, stop once	water
	temperature gradient.	distingtion	a few drops of liquid have	
	water out		collected.	
	condenser	Distillation	Pure water collects in the test	
		results	tube because it boils and the	
			cold ice condenses the	Water
sea	water in		vapours back to liquid. The ink	treatment in
water	water m pure water		gets darker because there is	the UK
+	() water		less water to dilute it.	
heat		Chromatography	1. Draw pencil line on paper	
		setup	2. Place ink spot on line	
			3. Place paper in solvent, with	
			solvent below pencil line.	
			4. Allow solvent to soak up the	
			paper	
			5. Stop when solvent near top,	
		1	and mark how far it gets.	

Chromatograg - calculate Rf Chromatograg results 3.20.1	and how far the solvent has moved. Rf = spot distance / sample distance.
1	7. Drinking water
Potable	Water that is safe to drink.
water	water that is suce to drink.
Desalination	Producing pure water from seawater.
Purifying	The seawater is distilled: heating
seawater	the water to produce water
	vapour and condensing it back to
	liquid. Uses lots of energy.
Uses of pure	Pure water has to be used when
water	chemists analyse substances to
	fins out what they contain. Tap
	water contains many dissolved substances that could interfere
	with this.
Water	Water is passed through a
treatment in	sedimentation tank, to allow
the UK	sediment to settle out, it is
	passed through a filtration tower
	to remove floating particles,
	chlorine is added to kill bacteria.

BROADOAK	B1: Biology key concepts	Micro	Millionth, 1x10 ⁻⁶ (a] [Nucleus	Contains DNA and controls]		3. Measuring cells
BROADOAK ACADEMY			micrometre is a millionth of a			the cell.		Micrograph	
	Lesson sequence		metre).	4 1	Ribosome	Produces proteins.			microscope.
	croscopes	Nano	Billionth, 1x10 ⁻⁹ (a nanometre		Mitochondria	Releases energy by aerobic		Light	A microscope that uses light,
	nt and animal cells		is a billionth of a metre).	4 4		respiration.		microscope	can magnify up to 1500 times.
	easuring cells	Pico	Trillionth, 1x10 ⁻¹² (a picometre		Cell wall	Protects and supports the cell	,	Electron	A microscope that uses
	re practical: using microscopes		is a trillionth of a metre).	ιĻ		made of cellulose.		microscope	electrons to produce an image,
5. Spe	ecialised cells				Permanent	Stores sap and helps to			can magnify up to 1,000,000
6. Bac	cterial cells			- H	vacuole	support the cell.	-	A	times.
7. Dig	estive enzymes			- 1	Chloroplast	Where photosynthesis		Actual size of a cell	Actual size = measured size /
8. Ho	w enzymes work			L		happens, contains chlorophyl			magnification
	ctors affecting enzymes		·					Convert mm to µm	
	re practical: enzymes and pH	OBJECTIVE	ARM					to µm	millimetres (mm) x 1000
	ll transport	LENSES					÷	1	
	re practical: osmosis in	MECHANICAL					÷.		e practical – using microscopes
	tatoes	STAGE	STAGE						What do cells look like under a
pet			CONTROLS					· · . /	light microscope?
	1. Microscopes	IRIS DIAPHRAGM	COARSE FOCUS			Cell wall			Collect the cells you are
Magnifica	ition The number of times bigger	ILLUMINATOR	FINE						studying and place them on the
	something appears under a		FOCUS				cells	1 1	slide. Add a drop of stain and
	microscope.	-	and the second se	₹	63		č		cover with a cover slip.
Eyepiece	lens The lens on a microscope that	-	-	t	in a	e 9	plant	Select lens	Choose between the 4x, 10x and
	you look through.		VARIABLE INTENSITY	Plant cell		Vacuole	Ē		40x objective lenses.
Objective lens			CONTROL	₽.	l î 🗨		nd in	Place slide	Place slide on microscope stage,
iens	microscope. There are	2	. Plant and animal cells	1			Fou	in .	adjust the coarse focus until the
	normally three you can	Cell	The basic structural unit of all	1			<u> </u>	microscope	iens is just touching the since.
Total	choose from. Eyepiece lens x objective lens.		living things (the building		Ę Ľ,	ome brane Chloroplast		Rough	Looking through the eyepiece,
magnifica			blocks of life).		olas Jeu			1 1	slowly adjust the coarse focus
Resolution		Parts of an	Cell membrane, cytoplasm,	1	Cytoplasm	Ribosome Mitochondrio Cell membran Chlo			until you see a rough image.
	between two points so that	animal cell	nucleus, ribosomes,		ۍ ا			Fine focus	Looking through the eyepiece,
	they can still be seen as two		mitochondria.						slowly adjust the fine focus until
	separate points.	Parts of a	Cell membrane, cytoplasm,						you see a sharply focussed
Stains	Dyes added to microscope	plant cell	nucleus, ribosomes,	≣) 🎬 🚯 🔹)			image.
	slides to show the details		mitochondria, cell wall,	alc		· 💀 💙 🛛			Draw what you see, label any
	more clearly.		permanent vacuole,	Ë.				-	cell parts you can recognise and
Milli	Thousandth, 1x10 ⁻³ (a		chloroplasts.	An	63	and Wilson			repeat with different objective
	millimetre is a thousandth of	Cell	Controls what enters and			and a second sec		Results	lenses. As you increase the
	a metre).	membrane	leaves the cell.						magnification of the objective
		Cytoplasm	A jelly-like substance where					1 1	lens, the cells appear larger and
			chemical reactions take place.					I I	more detailed.
									nore actanea.

BROADOAK Academy	

	5. Specialised cells	Eukaryotic cells	Cells with a nucleus.	Enzyme	A protein that works as a
Small	Job: To absorb small food	Prokaryotic	Cells without a nucleus.		catalyst to speed up the
intestine		cells			reactions in our cells.
cell	digestion.	Standard form	A way of writing numbers in	Digestive	Enzymes that break large food
	Adaptations: Tiny folds called		terms of powers of ten. E.g.	enzymes	molecules down into smaller
	microvilli that increase their				ones.
	surface area.		0.015 = 1.5 x 10 ⁻²	Amylase	Where found: saliva, small
Sperm	Job: Fertilise an egg and deliver		0.000458 = 4.56 x		intestine
cell	male DNA.		10-4		What it does: breaks down
	Adaptations: A tail to swim,				starch into simple sugars such
	mitochondria to give energy for		The index of ten (the		as maltose
	swimming, an acrosome to break		'minus' number) tell you	Lipase	Where found: small intestine
	through the egg's jelly coat,		which decimal point to start		What it does: breaks down fats
	haploid nucleus with only half the		on.	_	into fatty acids and glycerol
	total DNA.			Protease	Where found: stomach
Egg cell	Job: To be fertilised by a sperm	Chromoso	omal		(pepsin), small intestine
	and then develop into an embryo.	DNA	Plasmid DNA		(trypsin)
	Adaptations: Jelly coat to protect				What it does: breaks down
	the cell, many mitochondria, and	l			proteins into amino acids
	nutrients to provide energy for				
	growth, haploid nucleus with only				
	half the total DNA.	\sim			8. How enzymes work
iliated	Job: To clear mucus out of your			Substrate	The chemical(s) that an enzyme
epithelial	lungs (and other internal		•		works on.
ell	surfaces).			Active site	An area of an enzyme with the
	Adaptations: Small hairs on the				same shape as the substrate.
	surface – called cilia – which wave			Lock and	The substrate moves into the
	to sweep mucus along.	Flagellum	(not	key	active site and reacts to form
		always pre		mechanism	the products. The products
					leave the active site so another
	6. Bacterial cells		1		substrate can then enter and so
arts of a			Cell membrane		on.
oacterial	Inembrane, cen wan,		oen membrane	Specificity	Each enzyme can only work on
	cytoplasm, ribosomes,				one substrate because the
	I SNA STATES	7.1	Digestive enzymes		shape of the active site <u>has to</u>
	chromosomal DNA, plasmid			1	
	DNA	Digestion Bre	aking large food molecules		match.
	DNA Some bacteria: flagellum.	-	aking large food molecules wn into ones small enough to	Denature	match. When the shape of the active
	DNA Some bacteria: flagellum. omal Large piece of DNA	dov		Denature	
DNA	DNA Some bacteria: flagellum. omal Large piece of DNA containing most genes.	dov	wn into ones small enough to	Denature	When the shape of the active
DNA	DNA Some bacteria: flagellum. omal Large piece of DNA containing most genes. DNA Small loops of DNA	dov abs Catalyst A s	wn into ones small enough to sorbed by the small intestine.	Denature	When the shape of the active site changes shape so the
Chromoso DNA Plasmid E Flagellum	DNA Some bacteria: flagellum. omal Large piece of DNA containing most genes. DNA Small loops of DNA containing a few genes.	dov abs Catalyst A si che	wn into ones small enough to sorbed by the small intestine. ubstance that speeds up a	Denature	When the shape of the active site changes shape so the

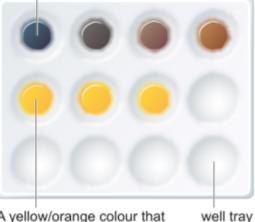


9. Factor affecting enzymes			
Optimum	The temperature when an		
temperature	enzyme works fastest (about		
	37 ⁰ for human enzymes).		
Changing the	Increasing to optimum: rate		
temperature	increases because particles		
	move faster		
	Increasing past optimum:		
	rate decreases as enzyme		
	denatures		
Optimum pH	The pH when enzymes work		
	fastest (around pH 6-8 for		
	most human enzymes)		
Changing pH	Rate decreases as you move		
	away from the optimum		
	because the enzyme		
	denatures.		
Increasing	At first the rate increases, but		
	then it levels out as the		
concentration	enzyme is working as fast as		
	possible.		
	Optimum temperature Changing the temperature Optimum pH Changing pH		



10. Core	practical – enzymes and pH		
key question	How does the rate that		
	amylase works change as you		
	change the pH?		
Prepare your	Place starch solution, amylase		
reactants	solution and pH 7 buffer into		
	separate test tubes and warm		
	them in a water bath at 40°C		
Prepare your	Place a few drops of iodine		
dropping tile	solution into each well of a		
	spotting tile.		
Start the	Mix reactants together, start		
reaction	the stop watch and keep the		
	mixture warm in the water		
	bath.		
Test for	Remove a small amount of		
starch	mixture and place in a well or		
	the spotting tile.		
Record your	Repeat the test until the		
results	mixture does not go black (no		
	starch). Record the time.		
Vary the pH	Repeat with different pH		
	buffers from pH 3 to pH 10		
Results	The amylase works fastest		
	around pH 7 and more slowly		
	at pH high or lower than this.		

A blue/black colour indicates the presence of starch.



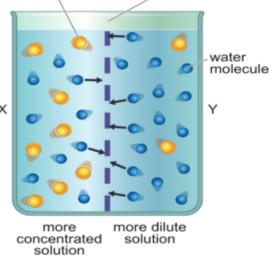
A yellow/orange colour that no longer changes indicates that the reaction is complete.

B iodine solution is used to indicate the presence of starch

Partially	A membrane that allows	12. Core p	oractical – osmosis in potatoes
permeable membrane	some molecules but not others to pass through it (like a cell membrane).	Prepare potatoes	Cut six similar pieces of potato, blot them dry and weigh them.
Osmosis	The movement of water across a partially permeable membrane from high water/low solute conc to low	Run the experiment	Place each potato piece in a test tube with sucrose (sugar) solutions with concentrations from 0% to 50%
Osmosis	water/high solute conc. Mosis Water into plant roots, water		Blot each potato piece dry and re-weigh it.
examples	in/out of any cells.	Calculate	% change = (final value –
Active transport	Using energy to move substances from low to high	percentage mass change	starting value) / starting value x 100
	concentration (up a concentration gradient).	Results	Potato in weaker sucrose solutions gain mass because
Active transport examples	Minerals being absorbed into plant roots.		water enters potatoes by osmosis, those in stronger solutions lose mass as water

soluble molecule that is too large to pass through the . membrane (e.g. sucrose)

partially permeable membrane allows molecules to pass through if they are small enough



C In osmosis, a solvent flows from a dilute solution of a solute to a more concentrated one.

	11. Cell transport
Concentration	The number of particles in a
	given volume (the strength of
	a solution).
Concentration	The difference in
gradient	concentration between two
	neighbouring areas.
Diffusion	The movement of particles
	from high to low
	concentration (down a
	concentration gradient).
Diffusion	Lungs: oxygen into blood,
examples	carbon dioxide out of blood
	Leaf: carbon dioxide into leaf,
	oxygen out of leaf.

ΙX

leaves by osmosis.



Year 9 Geography Knowledge Organiser – How long can we exploit Earth's resources?

-	· · · · · · · · · · · · · · · · · · ·	
1	Spheres	Everything in Earth's system can be placed into one of four major subsystems: land, water, living things, or air. These are listed below:
2	Atmosphere	Thin, fragile layer of gases that surrounds the Earth
3	Biosphere	Living matter on Earth, including all plant and animal life
4	Hydrosphere	The water on the surface of the Earth in oceans, rivers, lakes and rain.
5	Lithosphere	The Earth's crust including landforms, rocks and soil
6	Geological Time	Geologic time is the billions of years since the planet Earth began developing. Earth is 4.6 billion years old.
7	Rock Cycle	The Earth's rocks are always being created, changed and destroyed because of processes such as weathering, erosion and large earth movements. This takes place over millions of years.
8	Metamorphic	Rocks formed from other rocks that are changed by heat or pressure.
9	Sedimentary	Rocks formed by the broken remains of other rocks joining together.
10	Igneous	Rocks formed from molten rock that has cooled and become solid.
11	Natural resources/raw materials	Substances that are found in nature from which products can be made e.g wood made into furniture.

12	Sustainability	When materials and resources are used in a way that balances the needs of the present without compromising the future, the ability to maintain something such as economic growth.
13	Fossil Fuel	A natural hydrocarbon fuel such as petroleum, coal or natural gas, which is formed by the fossilised remains of ancient plants and animals over millions of years.
14	Crude oil	Naturally occurring and unrefined petroleum that can be refined into diesel, petrol, plastics etc.
15	Non-renewable	Substances which are limited and so will run out one day or cannot be replaced during our lifetime such as natural gas, coal etc.
16	Paris Agreement	An agreement made by 196 country leaders in France 2015, to work together to reduce the impact of harmful emissions on the planet and limit the rise in the Earth's temperature.
17	Keystone XL	A planned 1,897km pipeline to connect the oil sands of Alberta, Canada to Steele City, Nebraska USA, and carry 830,000 barrels of oil each day.
18	Stakeholders	Individuals, groups or organisations that are affected by an activity or have an opinion
19	Mining	The process or industry of extracting coal or other minerals from the inside the Earth
20	Industrial Revolution	Period of time when places become industrialised, use of machines develop and factories are built. Manufacturing becomes common. Happened in the UK during late 1700s and early 1800s
21	Energy Mix	The combination of different energy sources a country uses to meet its energy needs.

WWI Key Events					OAK History – Y	oor 0			<u>Key Terms</u>																											
1914 4 August	Britain declares war on G	ermany		Who do we remember				ACADEMI						Absolutists Conscientious objectors who wanted				_																		
19 October – 22 November	-	trenches built to protect men from illery. Trench warfare begins		in WWI? Key Skills		BWIR		ndia Regiment – forr bean troops to volu	ned in October 1915 nteer to fight in WWI.																											
1915 31 January	First use of chemical wea Russians on the Eastern F		against	Significance Remarkable – an event/person commented Use the 5Rs on at the time E Remembered – has not been forgotten E Resulted in change – led to other events f		Conscriptio		law that made it con the armed forces and	pulsory for men aged d fight in the war.																											
25 Sep – 8 October	Battle of Loos – Artillery Infantry are able to advar		-			nas not	Enlistment	· ·	The process by which men enrolled or 'joined up' to serve in the armed forces																											
1916 1 July-18 Nov	Battle of the Somme – Hu German trenches. Aroun		-			Resulted in change – led to other events		Resulted in change – led to other events'Going over the top'When troops left attack and cross 'n attack and cross 'n Non-Revealing – tells us a lot about that timeNon-Those who served		left their trenches to launch a frontal oss 'no man's land' to attach the enemy.																										
1917 March – April	=			Following the Russian Revolution, Russia sign a treaty with Germany to leave the war. USA joins in April.			about that time Resonant – has a				served in the armed forces but in a non- e such as ambulance drivers																									
31 July – 10 November	Battle of Third Ypres – ac have improved but it take			Source Nature: What is the type		e: What is the type Corps		-	RFC – name of the section of the army that flew and developed aeroplanes during WWI.																											
1918 21 Mar-18 Jul	German Spring Offensive - Germany almost breaks through to Paris and defeats France ending the war		-		-		-		-		•		-		-		-		-		-		-		-		-		•		of source? Origin: Who wro When? Where?	te it?	Reconnaissa		mation about enemy ng spying, observatio	•
8-12 August	Battle of Amiens – warfa Technology and weapons			Content Purpose : Why was the source made?		source made?				-	Defensive style of fighting whereby both sides dig trenches to protect themselves from weapon fire.																									
11 November	Armistice ends the war a WWI is over	t 11 am.		<u> </u>	Key Groups/People		War of attrition		shting that involved s ar down the enemy a	ending huge numbers and gain land.																										
Kaiser Wilheln Leader of Germ during WW1 u 1918	any Men who refused	William H Coltman Non-Combatant awarded medal for bravery as a stretcher bearer	British We Regimen allowed to Westerr	IR est Indies nt – not o o fight on	Walter Tull First Black British fficer in the British Army	Queen Alexa Professic who t soldiers c	andria Nurses onal nurses treated on Western ont	Volunteer nurses who provided care to troops on the Western Front	WAAC Female non- combatant unit who freed up men to fight	Major 'Mick' Mannock Britain's most successful pilot. Shot down 61 enemy planes and develop tactics																										

ACADEMY Religion and How can we make an ethical decision? **Definition:** Keyword: **World Views** The ability to make your own Sacred texts Autonomy decisions Utilitarianism **Situation Ethics** What societies sanction as right and Morality acceptable A theory Rationa thinking the faith developed Being 'ethical' is about having by American standards of behaviour and 'doing the Professor Sources of Ethical **right** thing'. Relating to beliefs about authority Religious Joseph Fletcher. Personal principles what is morally right and wrong experience Inspired by his or rules Christian faith, Fletcher A theory developed believed that Agape A person's moral sense of right and Conscience by British (unconditional love) wrong was the best tool for moral philosopher Jeremy Bentham; do what decision making. The termination (ending) of a Abortion Fletcher taught that 'the Religious traditior creates.. Family and friends and community pregnancy morality of an action, 'the greatest **Euthanasia** depends on the situation'. happiness for the The act of deliberately ending a This means that, rather than a greatest number'. **Euthanasia** person's life to relieve suffering Something is done to a person to This is a blanket rule for everyone, Active euthanasia make them die more quickly. such as do what creates 'the consequentialist Capital punishment, also known as the theory as it believes greatest happiness for the Any form of treatment that might Death death penalty, is a state-sanctioned greatest number', you the greatest extend a person's life is withdrawn. practice of killing a person as a Passive euthanasia Penalty happiness for should look at each This is legally allowed in the UK, and punishment for a crime. situation individually and do greatest amount of so would not be called euthanasia. what is the most loving thing. people will produce "How good someone's life is" - The the best This is an intentionalist theory A person cannot decide about eut Non-**Quality of** standard of health, comfort, and as it requires you to look at a hanasia or cannot make their consequences/ voluntary euthanasia life happiness experienced by an situation individually and outcomes. wishes known, and so someone individual or group intentionally do what you else. believe will be the most loving thing. Voluntary euthanasia A person asks for their own life to Sanctity of The idea that all life is special and be ended. belongs to God. life

Normaleme D'habitude Quelquefoi	usually		<u>e</u>	La semaine prochai	ne (Near	k 9 French) Future Tense hext week	3. <u>The Preterite (Past) Tense</u> La semaine dernière <i>next week</i> Le weekend dernier <i>next weekend</i> L'année dernière <i>next year</i>				
Step 1: Take the infinitive of the verb (ER/IR/RE) Step 2: Chop off the ending (ER/IR/RE)				Le weekend prochain next weekend Demain tomorrow L'année prochaine next year				Perfect Tense verbs with 'AVOIR': Step 1: Take the present tense of the verb avoir For some verbs you need to use the verb être			
Step 3: Add	I the correct end	ding:		Step 1: Take the pro		ense of the verb 'ALLEF	R' (to	(MRS VANDERTRAMP) AVOIR: to have			
There are ve	e is es is e it ons iss ez iss ent iss Irregular Verbs: erbs that don't f	sons sez sent follow t	•	ALLER: to goJ'aiI haveJe vaisI go/am goingTu asYou haveTu vasYou go/are going (s.)II/Elle/On vaHe/she/one goes/is goingNous avonsWe haveNous allonsWe go/are goingNous avonsWe haveVous avezYou haveVous allezYou go/are going (p.)Ils/Elles vontThey go/are goingStep 2: Add an infinitive (the thing you're going to do).Step 2: Add an infinitive (the thing you're going to do).Step 2: Add the past participle (see run Take the infinitive – chop off the IR + a Take the infinitive – chop off the RE + a				Tu as You have Il/elle/on a He/she/one has Nous avons We have Vous avez You have			
	important irreg E, AVOIR, ALLER,					oing to play vais jouer		Awesome French Things to Say j'en ai hâte! <i>I can't wait for it</i> !			
Je suis tu es	you are	<i>is</i>)	Je fais tu fais il/elle/on fait nous faisons vous faites	o do/make Common Past Tense Verbs with ÊTRE G do Je suis allé (e) I went I ou do (s) Nous sommes allé(e)s We went I He/she/one does Je suis resté (e) I stayed I Nous sommes resté(e)s We stayed I G ou do (pl) Cast – it/s G G		Que je sacheAs far as I knowles derniers/dernièresthe latestC'est mon trucIt's my (kind of) thingCe n'est pas mon trucIt's not my (kind of) thingen regardant la téléwhile watching TVen écoutant de la musiquewhile listening to musicen faisant des devoirswhile doing homework					
NFO 2021						Ce sera – it will be					



9 Technology and Media FRENCH

Ð



TECH

TECHNOLOGY VERBS	
supprimer	to delete, erase
charger	to load
chatter	to chat online
ooster des photos	to post photos
communiquer	to communicate
répondre	to answer
créer	to create
donner	to give
télécharger	to download
envoyer	to send
functionner	to work, to function
enregistrer	to save
parler	to speak, to talk
surfer sur Internet	to surf the internet
oouvoir	to be able to
recevoir	to receive
orendre des photos	to take photos
regarder en	to stream
streaming	
oartager	to share

to use

comedies

cartoons

the news

game shows

police shows soap operas

documentaries

sports programmes

TECHNOLOGY NOUNS	
Un dossier	file
Un courrier indésirable	spam, jun
Un courrier électronique	email
Un disc dur	hard drive
Un jeu	game
Un texto/un SMS	text mess
Un téléphone portable	mobile/sr
Un ordinateur	computer
Un ordinateur portable	laptop
Des jeux-vidéo	video gan
Une chanson	song
Un écran	screen
Internet	internet
Un réseau social	social net
Une magazine (digitale)	(digital) m
Un salon de discussion	chat room
Une tablette	tablet
La technologie	technolog

file
spam, junk mail
email
hard drive
game
text message
mobile/smartphone
computer
laptop
video games
song
screen
internet
social network
(digital) magazine
chat room
tablet
technology



TV GENRES

utiliser

les comédies
les dessins animés
les jeux télévisés
les documentaires
les infos
les émissions de sport
les séries policières
les feuilletons

Les émissions de musique
La télé-réalité
La série policière
La météo
La publicité



music programmes reality TV police series weather advert



FILM GENRES	
Les films d'action	action films
Les films d'amour	romantic films
Les films de science fiction	sci-fi films
Les films dramatique	dramatic films
Les films à suspense	Suspense/thriller films
Les films de guerre	War films
Les films d'horreur	horror films

generalment a veces Step 1: Take t	generalmenteusuallya vecessometimesStep 1: Take the infinitive of the verb (AR/ER/IR)Step 2: Chop off the ending (AR/ER/IR)			Y8 & 9 Spanish2. The (Near) Future TenseIa semana próximanext weekel fin de semana próximonext weekendmañanatomorrowel año próximonext yearStep 1: Take the present tense of the verb 'ir' (to go)			3. la semana pas el fin de sema ayer el año pasado <u>Regular Verbs</u> Step 1: Take tl	ada na pasad) <u>:</u>	<i>vesterday</i> last year	nd
Step 3: Add t	the correct e	ending:		Step 1: Take the pre	<u>ir: to go</u>		Step 2: Chop off the ending (AR/ER/IR)			
Pronouns A	AR verbs	ER verbs	s IR verbs	(yo) Voy	I go/am go	-	Step 3: Add th	ne correct	t ending:	
Tú a El/Ella a Nosotros a Vosotros a	o as a amos á is an	o es emos éis en	o es imos ís en	(tú) Vas (el/ella) Va (nosotros) Vamos (vosotros) Vais (ellos/ellas) Van	We go/are You go/are They go/are	e goes/is going going going (p.)	Pronouns Yo (I) Tú (You s.) El/Ella (He/Sh Nosotros (We)	AR verbs é aste ó amos	ER/IR verbs í iste ió imos istois
Super Five Irr	regular Verl	hs		Step 2: Add the presposition 'a' Step 3: Add an infinitive (the thing you're going to do).		Vosotros (You Ellos/Ellas (Th		asteis aron	isteis ieron	
Super Five Irregular Verbs: There are some verbs that don't follow this pattern. The 4 most important irregular verbs are on this sheet (TENER, IR, SER, and HACER).		g. I'm going to play Voy a jugar		6. <u>Awr</u> ¡No puedo espera Por lo que sé	-	anish Things to I can't wait j As far as I kn	for it!			
<u>Ser</u>	<u>r – to be</u>		<u>Hacer – 1</u>	to do/make <u>Tener: to have</u>		Que yo sepa		As far as I kn		
(yo) SoyI am(yo) Hago(tu) EresYou are (s.)(tu) Haces(él/ella) EsHe/she/is(él/ella) Hace(nosotros) SomosWe are(nosotros) Hacem(vosotros) SoisYou are (p.)(vosotros) Haceis(ellos/ellas) SonThey are(ellos/ellas) HaceNFO 2021		You <i>do/make (p.)</i> (vosotros) Tenéis You have (p.)		el último / la últin Es mi (tipo de) cos No es mi (tipo de) Mientras estaba v Mientras estaba e Mientras estaba h	a cosa iendo scuchand whil aciendo /	le I am listening ' hago los debe	of) thing ind of) thing itching TV música g/I listen to music			

NFO 2021



9 Technology and Media SPANISH

TECHNICI OCV NICHING



TECHNOLOGY VERBS	
borrar	to delete, erase
cargar	to load
chatear	to chat online
colgar fotos	to post photos
comunicarse	to communicate
contestar	to answer
crear	to create
dar	to give
descargar	to download
enviar	to send
funcionar	to work, to function
guardar	to save
hablar	to speak, to talk
mandar	to send
navegar la red	to surf the internet
poder	to be able to
recibir	to receive
sacar fotos	to take photos
transmitir	to stream
usar	to use
utilizar	to use

TECHNOLOGY NOUNS	
el archivo	file
el correo basura	spam, junk mail
el correo electrónico	email
el disco duro	hard drive
el juego	game
el mensaje de texto	text message
el móvil	mobile/smartphone
el ordenador	computer
el ordenador portátil	laptop
el videojuego	video game
la canción	song
la pantalla	screen
la red	internet
la red social	social network
la revista (digital)	(digital) magazine
la sala de chat	chat room
la tableta	tablet
la tecnología	technology
	el archivo el correo basura el correo electrónico el disco duro el juego el mensaje de texto el móvil el ordenador el ordenador portátil el videojuego la canción la pantalla la red la red la red social la revista (digital) la sala de chat

FILM GENRES

las películas de acción las películas de amor las películas de ciencia ficción las películas de drama las películas de suspense las películas de terror

	PID
1:	\sim

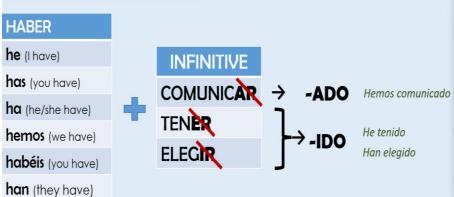
action films romantic films sci-fi films dramatic films suspense films



TECHNOLOGY ADJEC	TIVES	
aburrido/a	boring	
antiguo/a	old	
animado/a	exciting	
confuso/a	confusing	
corto/a	short	
de moda	fashionable	
despacio/a	slow	
entretenido/a	entertaining	
escalofriante	scary	
estimulante	stimulating	
informativo/a	informative	
interesante	interesting	
inútil	useless	
largo/a	long	÷
lento/a	slow	
peligroso/a	dangerous	
práctico/a	practical	
rápido/a	fast	
ridículo/a	ridiculous	
roto/a	broken	
útil	useful	



THE PERFECT TENSE



TV GENRES	
las comedias	comedies
los concursos	game shows
los dibujos animados	cartoons
los documentales	documentaries
las noticias	the news
los programas de deporte	sports programmes
las series policiacas	crime series
las telenovelas	soap operas

Posture How an actor stands or sits	P.P.I.G.S F.M	Movement The way an actor moves and where they move to on	Drama Techniques Toolkit Freeze Frame	Definition When everyone on stage at one moment freezes or stands still	Proscenium Arch
BROADOAK ACADEMY	ACC APIC	stage	Narration	Where there is someone or a voice telling parts of the story not shared by the acting that the audience need to know	
Proxemics		Facial Expression	Mime	Performing/acting with no speaking	In The Round
The space and awareness of space between actors and		Facial movements to show mood or	Role-Play	Performing/acting as if you are a specific character or in a specific situation	
sometimes objects. Where an actor is on stage	How does an actor use vocal and physical skills to	emotion	Split-Stage	Where there are two different things taking place on stage at the same time often to show different places or periods of time	AUDIENCE
Interaction	communicate their character?	Speech	Stage Configuration	The type, layout or design of a stage	Thrust
The physical	Gesture Body movements,	Pitch (high/low),	Stage Positioning	Specific areas on a stage where actors or set are positioned	
communication between characters	usually using hands, arms or shoulders	Volume and Projection, Pace, Diction,	Step Out	When an actor steps away or looks up from a freeze frame to address/speak to the audience	STAGE BERGE
and sometimes objects	units of shoulders	Emphasis, Accent	Stock Characters	Stereo-typical characters found in a play	AUDIENCE
	VOCAL SKILLS				Traverse
\frown	ACCENT		Practitioner	Theatre Techniques, Conventions and Practices	28888
PITCH How HIGH or LOW a voice sounds	A way of talking associated with a geographical location	PACE The speed in which someone speaks or	Stanislavski	Realism . What you see on stage is a realistic representation of real life. Understanding the 'Given Circumstances' (the context) and the 'Magic If' (what would I do and how would I feel if I was in that situation)	
	or social class	responds	Brecht	Not realism . You should not believe what you see on stage is real. Use of mime, freeze frame, step out, placards, narration, music, movement and gesture – Physical Theatre	Stage Positioning
TONE The emotional sound of the voice e.g. Angry,	DICTION How clear an actor pronounces their	PROJECTION The direction and distance an actor sends	Artaud	Heightening the senses . An intense theatrical experience that combined elaborate props, magic tricks, special lighting, movement, primitive gestures and articulations – Physical Theatre. Theatre of Cruelty	Right Opstage Left Stage Right Centre Stage Downstage Down Downstage Right Stage Left
Sad, Excited	words	their voice	Shared Experience	Exploring both sides. Communicating one feeling/emotion whilst visibly displaying another. Understanding two sides of a story. Use of Physical theatre.	Audience
Volume How LOUD or QUIET an actor speaks to express their emotion	EMPHASIS Where an actor stresses a word to indicate its importance	PAUSE Stopping for a moment for dramatic impact	Frantic Assembly	Physical Theatre. Communication of a story/mood/emotion through movement and gesture.	Year 9 Drama Theatre Practitioners

Hip-Hop and Reggae

Pulse – constant, steady beat

Rhythm – The combination of long and short notes

Syncopation – playing on the off-beat **Skank** – the characteristic off-beat feel of Reggae music

Lyrics – the words of the song

MC (Master of Ceremonies) – another name for a rapper

Rap – pop music where words are recited rapidly and rhythmically over an instrumental backing

Slang – informal words/phrases

Synthesiser – computer-generated sound Samples – pre-recorded sounds

Loops – the continuous use of a musical phrase in electronically produced music

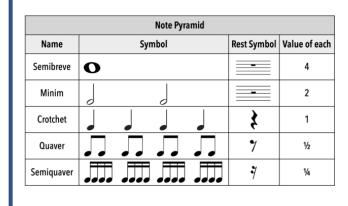
Rhyme – correspondence of sound between words or endings of words

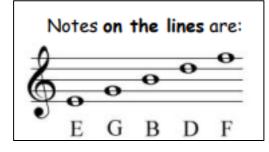
Structure – the order of the sections in a piece of music

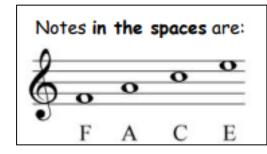
Depressed – Sad feelings

Oppressed – dominated by other people

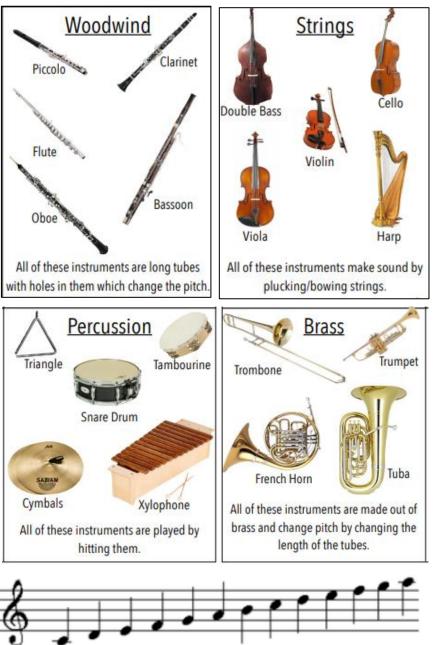
Y9 Music How has Music narrated the struggle for equality?







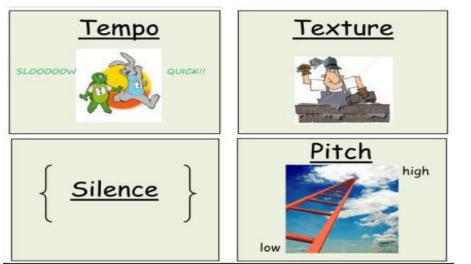


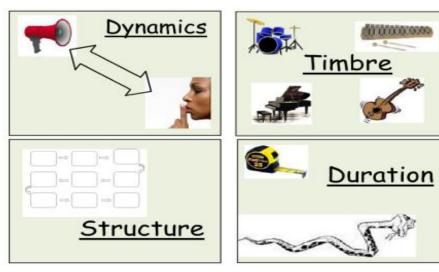


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Rhythm	The pattern of beats in a piece of music	Sharp #	Played with the black note to the RIGHT (F# / G# / C#)
Melody	The main tune	Flat b	Played with the black note to the LEFT (Bb / Eb / Ab)
Chord	Three notes played together at the same time	Duet	A tune shared between parts equally
Crotchet	Lasts 1 beat of a pulse	Fluency	No hesitations in a performance
		Keyboard	An electric piano
Minim	Lasts 2 beats of a pulse	Ukulele	A guitar-like instrument with four strings
Quaver	Lasts ½ beat of a pulse	Lyrics	Words
Semibreve	Lasts 4 beats of the pulse	Conductor	Leader of the music – links between the singing and the instrumentalists
Pulse	A constant steady beat which keeps all the music together		
Rest	Silence in music	Audience	The people who watch and listen to a performance
Elements	The building blocks of music	Ensemble	A group of performers
Pitch	Whether the sound is high or low	Compose	Making up your own music
		Perform	Playing music in front of an audience
Duration	The length of a sound	Improvisation	Making up music on the spot
Tempo	The speed of the music	Bass line	A repeating pattern played at a low pitch
Timbre	The instruments used	Verse	The section of a song that tells the story and has different words each time
Texture	How many layers of sound there are		
Dynamics	The volume of the music	Chorus	The catchy section of a song that is repeated lots
Structure	The order of the sections	Round	One person starts singing then the next person starts 4 or 8 beats later
Silence	No sound, the gaps in the music	Balance	How well the different parts are mixed together
Accompaniment	Sounds going on under the main tune	Contrast	Big changes between sections
Introduction	Music heard at the start of a piece - before the main tune comes in	Multitrack	Layering different parts one at a time by recording them

BROADOAK ACADEMY







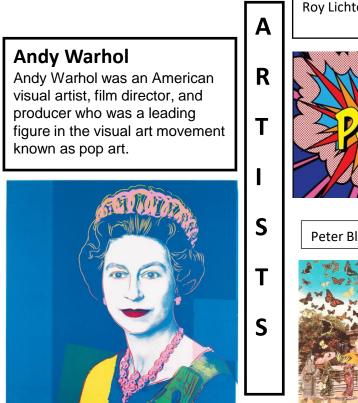
The Past

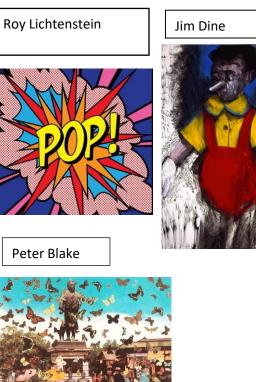
Content: In this project you will develop knowledge of the past and how it relates to art and culture.

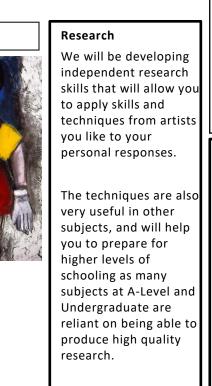
Understand the cultural changes in art over time

Develop skills- drawing, shading, painting, appropriation, using materials to create 3 dimensional shapes and showing the influence of other artists in your own work and presentation

Outcome- A response to how you view events and cultures of the past







Keywords:

Civil Rights – Civil rights are the freedoms afforded to all individuals that allow them to live, work, love and generally exist without interference, repression or discrimination from the government or any other parties or individuals.

Appropriation- The use of pre-existing objects or artworks in the creation of art, with subtle changes that make it a new original piece.

1. Assessment: (D) Demonstrate a deepening- knowledge, understanding and skills

(O+)On Track- Demonstrate some- knowledge, understanding and skills

(O-)On Track- Demonstrate some- knowledge, understanding and skills

(Y)Yet to be on Trackdeveloping some
knowledge, understanding and skills
(A)Earlier Stage-minimal
knowledge, understanding and skills

Analysis

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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...

Broadoak Above and Beyond Challenges

Curriculum Area	How to develop your curiousity
English	Read a book of your choosing and write a book review.
Maths	Write a colourful set of instructions/flow diagram for solving questions/equations you have been working on this term.
Science	Research a scientist of the past create a fact-file of their background and achievements and impacts.
Humanities	Create a film reporting on a historical event you have looked at, as if it happened today.
MFL	Make a booklet for the year below you about how to be a successful linguist.
The Arts	Research and make a fact-file on an artist, chef or inventor of your choosing.
Performing (Music and Drama)	Watch live or online a performance of your choosing and write a review for a magazine, rating and evaluating it.
PE	Take an autumnal walk, assessing how you felt before and after.

Due: First week after December break, by 13th January 2023 **Where**: Give to your subject class teacher first lesson back.

