

Name:

Base Group:



Year 11 Knowledge Organiser

Easter Term

How to use the Knowledge Organiser

You have been provided with an exercise book and a knowledge organiser. Your knowledge organiser contains important facts. These will cover topics from year 7 to year 10.

In order to learn the words you will be expected to use :

'look, cover, write, check'

You have been given an exercise book to practise your homework in. The expectation is that you will write out neatly the words, along with their definitions. A week later, your teacher will check that you have completed your homework and you will be given a test to check that you have remembered everything.

Your knowledge organiser is for you to use to support your learning and you will be expected to use this alongside your written homework

You will need to remember:

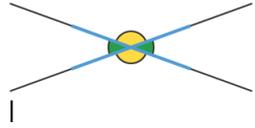
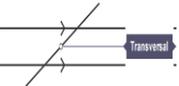
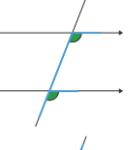
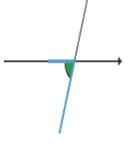
- to take your exercise book and knowledge organiser to all lessons;
- to take your exercise book and knowledge organiser home each night;
- to write neatly;
- to practise every night.

Ways to help you remember			
<p>Retrieval Practice</p> <p>HOW TO DO IT</p> <p>You can also make flashcards. Just make sure you practice recalling the information on them, and go beyond definitions by thinking of links between ideas.</p> 	<p>Spaced Practice</p> <p>HOLD ON!</p> <p>When you sit down to study, make sure you are using effective study strategies rather than just re-reading your class notes.</p> <p>TESTING 1 2 SPACING 3 SKETCHING</p> 	<p>Retrieval Practice</p> <p>HOLD ON!</p> <p>Retrieval practice works best when you go back to check your class materials for accuracy afterward.</p> 	<p>Once you are confident that you know everything try to :</p> <ul style="list-style-type: none">Make a crosswordWrite a quizDraw a mind mapProduce a posterExplain a topic to a friend

Maths -Number

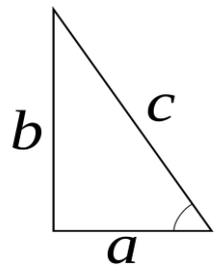
1	Fraction	Decimal	Percentage		Fraction	Decimal	Percentage
	1/2	0.5	50%		2/10 = 1/5	0.2	20%
	1/4	0.25	25%		4/10 = 2/5	0.4	40%
	3/4	0.75	75%		6/10 = 3/5	0.6	60%
	1/10	0.1	10%		8/10 = 4/5	0.8	80%
	3/10	0.3	30%		10/10 = 1	1	100%
	7/10	0.7	70%		1/8	0.125	12.5%
	9/10	0.9	90%		1/3	0.3̄	33.3̄ %
	2	percentage increase	= $\frac{\text{increase}}{\text{original amount}} \times 100$	3	percentage decrease	= $\frac{\text{decrease}}{\text{original amount}} \times 100$	
4	new value after percentage increase	= original x (100% + % increase)	5	new value after percentage decrease	= original x (100% + % decrease)		
6	original amount after percentage increase	= new amount ÷ % increase	7	original amount after percentage decrease	= new amount ÷ % decrease		
8	recurring decimal	A decimal which continues in a repeated pattern	9	terminating decimal	a decimal which ends		
10	profit	Financial gain.	11	loss	financial loss		
12	multiplier	The number used to multiply another number					

Shape and Space

1	sum of angles on a straight line	180°	2	sum of angles in a complete turn	360°	3	vertically opposite angles Equal angles		4	transversal A line crossing a pair of parallel lines	
5	corresponding angles (F angles) Equal angles		6	alternate angles (z angles) Equal angles		7	interior angles	sum = 180°	8	quadrilateral	shape with 4 sides
9	isosceles triangle	triangle with 2 equal sides and 2 equal angles	10	equilateral triangle	triangle with 3 equal sides and 3 equal angles	11	right-angled triangle	triangle containing one right-angle	12	scalene triangle	triangle which has no angles or lengths the same
13	square	4 equal sides 4 right angles	14	rhombus	4 equal sides Opposite angles equal	15	rectangle	2 pairs of opposite, equal sides 4 right angles	16	parallelogram	2 pairs of opposite, equal sides
17	trapezium	1 pair of parallel sides	18	isosceles trapezium	1 pair of parallel sides 1 pair of equal sides	19	kite	2 pairs of adjacent, equal lines	20	vertex	where 2 straight lines meet
21	area of a triangle	= ½ base x perpendicular height	22	area of a trapezium	½ (a + b) h	23	perimeter	distance around the outside of a shape	24	1cm² 1m²	=100mm ² 10000cm ²

Maths-Trigonometry

1	Pythagoras $c^2 = a^2 + b^2$	2	
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Compound Measures

1	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><u>Density</u></p> </div> <div style="text-align: center;"> <p><u>Pressure</u></p> </div> </div>
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	Distance = Speed x Time		Time = $\frac{\text{Distance}}{\text{Speed}}$		Speed = $\frac{\text{Distance}}{\text{Time}}$
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Maths- Handling Data

1	average	mean, median, mode	2	mean	total ÷ number of items
3	median	the middle number when all the numbers are in ascending order	4	mode	the most popular
5	range	highest value- lowest value	6	line of best fit	a straight line drawn so that roughly the same number of points are either side of it
7	negative correlation	one variable increases as the other decreases	8	positive correlation	one variable increases as the other decreases
9	interpolation	using the line of best fit to find values inside the range of the scatter diagram	10	extrapolation	using the line of best fit to find values outside the range of the scatter diagram
11	primary data	data you collect yourself	12	discrete data	certain numerical values eg number of sweets in a bag
13	qualitative data	data described in words	14	quantitative data	numerical data (discrete & continuous)
15	continuous data	any numerical value eg the temperature	16	trend	a link between data
17	random sample	a selection chosen at random for an experiment	18	estimate	calculate using the data. DO NOT GUESS
19	stratified sample	population split into strata and a sample taken from the sample	20	number sampled in a stratum	= $\frac{\text{number in a stratum}}{\text{total sample size}} \times \text{number in population}$

Angles in a pie chart	Number	Angle										
	360	1°	180	2°	120	3°	90	4°	60	6°	45	8°
	40	9°	36	10°	30	12°	20	18°	15	6°	10	36°

English-An Inspector Calls

Key Quote/ Technique:	Key idea	Zoom in #1	Zoom in #2	Big idea	Writer's method
"I was quite justified" Symbolism	Symbolises powerful men of the time	"justified" - arrogance	"quite" - sense of power	Social responsibility	Priestley shows Birling is the embodiment of capitalism
"Millions and millions of Eva Smiths" Symbolism	Eva represents all women and Smith represents all people	"Millions" - the working class	"Eva" - symbolic of all women	Social responsibility Equality	Priestley shows that The Inspector is an embodiment of socialism
"Suffering chance of happiness" Symbolism	Working class people have a slim chance of happiness, it is getting slimmer	"Suffering" - enduring pain	"Chance" - unlikely to occur	Social responsibility Cause and effect	Priestley presents his idea of all actions having a consequence
"A girl of that sort" Symbolism	An upper class view of those below them	"Girl" - Eva is seen as unimportant	"Sort" - socially Eva is below Mrs Birling	Equality Class	Priestley shows that class plays an important role in inequality
"He ought to be made an example of" Dramatic irony	Mrs Birling placing judgement without knowing all of the facts	"He" - reference to Eric/ seen as unimportant	"Example of" - capital punishment was viewed positively	Class	Priestley shows that the arrogance and lack of understanding of the upper class
"Why - you fool - he knows" Foreshadowing	Shows the increasing realisation of Sheila about her responsibility	"You fool" - disrespectful words towards her parents	"He knows" - an understanding of her own responsibility	Social responsibility	Priestley shows the growing divide between young (socialist) and old (capitalist)
"We all helped to kill her" Symbolism	Symbolises the divide between young and old/ conservative and socialist	"We" - collective responsibility	"Helped" - all had a part to play	Cause and effect Equality	Priestley shows a clear divide between young/ old and a change in society

English-An Inspector Calls

<p>“Unsinkable, absolutely unsinkable” Metaphor</p>	<p>Birlings metaphorical ship is about to sink</p>	<p>“Unsinkable” - shows arrogance</p>	<p>“Absolutely” - an absolute view (upper class)</p>	<p>Class Time</p>	<p>Priestley shows the arrogance of the upper class and also a stark contrast of 1912 to 1946</p>
<p>“I’m ashamed of you... yes both of you” Symbolism</p>	<p>Social responsibility is vital in order to rebuild society</p>	<p>“Ashamed” - Eric understands what is morally right and wrong</p>	<p>“Both” - turns against his parents</p>	<p>Youth and age</p>	<p>Priestley shows that 1946 should be a time of social change</p>
<p>“We are members of one body” Extended Metaphor</p>	<p>We are all connected in one way or another</p>	<p>“Members” - elected to join</p>	<p>“One body” - all part of the same organism</p>	<p>Socialism</p>	<p>Priestley uses the Inspector’s final words to embed his idea of socialism and show that we are all accountable for our actions</p>
<p>“Fire, blood and anguish” Foreshadowing</p>	<p>Foreboding events between 1912 and 1946</p>	<p>“Fire” - link to war</p>	<p>“Blood and anguish” - link to death</p>	<p>Social responsibility</p>	<p>Priestley uses the Inspector to express that if things do not change, then the world will pay a heavy and unforgivable price</p>
<p>“We are not alone” Extended metaphor</p>	<p>All people are connected in one form or another</p>	<p>“We” - collectively</p>	<p>“Alone” - implies selfishness/ selfish actions</p>	<p>Cause and effect</p>	<p>Priestley’s obsession with how all acts lead to another is clearly demonstrated here</p>
<p>“Chain of events”</p>	<p>Everything is interlinked, meaning actions have repercussions</p>	<p>“Chain” - holds something together</p>	<p>“Events” - series of happenings</p>	<p>Cause and effect</p>	<p>Priestley focuses once more on how all people had a part to play in Eva’s death</p>

English- An Inspector Calls

1	Written by J.B Priestley and first published in 1946	2	J.B Priestley was interested in socialism and equality
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Character information:

3	Birling	Embodiment of capitalism	6	Mrs Birling	Embodiment of the upper class
4	The Inspector	Embodiment of socialism	7	Sheila	Embodiment of the changing youth
5	Eva Smith	Embodiment of the working class	8	Eric	Embodiment of innocence and ignorance
6	Gerald Croft	Embodiment of the ignorant youth	9	Edna	An example of the working class

Big ideas (context):

10	<p>Social responsibility Priestley wanted the audience to learn from the lessons of two World Wars and not make the same social mistakes again. The big idea here is that people need to be responsible for their own actions as well as supporting others to ensure society comes together.</p>	11	<p>Equality In 1946, women and men were more equal than they had been in 1912, however there was still a clear divide between the genders in terms of role. In addition, there was disparity between the higher and lower classes in both 1912 and 1946 - this caused a lot of political tension during the 20th Century.</p>
12	<p>Class The social divide created by money in 1946 meant that there was a stark difference in the ways the higher and lower social classes lived. This is mirrored by the class structure in 1912, showing the rich had complete control over the poor.</p>	13	<p>Cause and effect The Inspector speaks of a "chain of events" that may have led to Eva's death. Her suicide is not the product of one person, but of many people each acting alone. This links to Priestley's fascination with time and how things in time cause or are caused by others.</p>
14	<p>Youth and age Priestley was well aware that the older generation would find it hard to change their mindset, so he focused his messages on the younger generations and tried to conceptualise for the older generations the errors of their ways.</p>	15	<p>Time Priestley tries to get us to consider the significance of time passing and things changing. His messages about learning lessons are based around the idea that we only have a limited amount of time to change before it's too late.</p>
16	<p>Socialism Socialism was seen as something that led to communism after WW2; therefore, Priestley needed to be careful how he presented the idea for a Western audience. There was a lot of tension between the East and West over post-war issues which eventually led to The Cold War.</p>	17	<p>The Supernatural The Inspector's name, though explicitly spelled "Goole" in the play, is often interpreted through an alternative spelling: "ghoul." The Inspector, is not a real Brumley inspector and could possibly be a ghost who makes the Birling's morally accept their roles - Priestley provides no evidence otherwise.</p>

PHYSICS

1	distance travelled	average speed x time	13	power	work done divided by time
2	acceleration	rate of change in velocity	14	moment of a force	force x distance normal to the direction of force
3	resultant force	overall (net) force	15	energy transferred	charge moved x potential difference
4	weight	force associated with the pull of gravity on a mass	16	charge	current x time
5	momentum	mass x velocity (direction is important)	17	potential difference	current x resistance
6	change in gravitational potential energy	mass x gravitational field strength x change in vertical height	18	power	energy transferred divided by time taken
7	kinetic energy	movement energy	19	electrical power	current x potential difference
8	efficiency	useful energy divided by total energy	20	electrical power	current squared x resistance
9	wave speed	speed of a wave	21	density	mass divided by volume
10	frequency	number of waves passing a point in one second	22	force exerted on a spring	spring constant x extension
11	wave speed	distance travel by wave divided by the time taken	23	pressure	force normal to a surface divided by the area of the surface
12	work done	force x distance moved in the direction of the force	24	pressure due to a column of liquid	height of column x density of liquid x gravitational field strength

Base units – these units and their associated quantities are dimensionally independent

	UNIT	UNIT SYMBOL		UNIT	UNIT SYMBOL
1	metre	m	4	ampere	A
2	kilogram	kg	5	kelvin	K
3	second	s	6	mole	mol

Physics

Some **derived units** (from base units) with special names

	name	unit	abbreviation		name	unit	abbreviation
1	frequency	hertz	hz	6	electric charge	coulomb	C
2	force	newton	n	7	electric potential difference	volt	V
3	energy	joule	j	8	electric resistance	ohm	Ω
4	power	watt	w	9	magnetic flux density	tesla	T
5	pressure	pascal	Pa				
11	$E = F \times d$	work done = force x distance moved in the direction of the force		23	$P = h \times \rho \times g$	pressure due to a column of liquid = height of column x density of liquid x gravitational field strength	

Physics

Formulae (to learn)

1	$d = v \times t$	distance travelled = average speed x time	13	moment of a force = force x distance normal to the direction of the force	
2	$a = (v-u)/t$	acceleration = change in velocity ÷ time taken	14	$E = Q \times V$	energy transferred = charge moved x potential difference
3	$F = ma$	resultant force = mass x acceleration	15	$Q = I \times t$	charge = current x time
4	$W = mg$	weight = mass x gravitational field strength	16	$V = I \times R$	potential difference = current x resistance
5	$p = mv$	momentum= mass x velocity	17	$P = E/t$	power = energy transferred ÷ time taken
6	$\Delta GPE = m \times g \times \Delta h$	change in gravitational potential energy = mass x gravitational field strength x change in vertical height	18	$P = I \times V$	electrical power = current x potential difference
7	$KE = \frac{1}{2} m \times v^2$	kinetic energy = $\frac{1}{2}$ x mass x (speed) ²	19	$P = I^2 \times R$	electrical power = current squared x resistance
8	efficiency = $\frac{\text{useful energy transferred by the device}}{\text{total energy supplied to the device}}$		20	$\rho = m/V$	density = mass ÷ volume
9	$v = f \times \lambda$	wave speed = frequency x wavelength	21	$F = k \times x$	force exerted on a spring = spring constant x extension
10	$V = x/t$	wave speed = distance ÷ time	22	$P = F/A$	pressure = force normal to a surface ÷ area of surface
11	$E = F \times d$	work done = force x distance moved in the direction of the force	23	$P = h \times \rho \times g$	pressure due to a column of liquid = height of column x density of liquid x gravitational field strength

Chemistry

1	states of matter	one of three forms a substance can have: solid, liquid or gas	37	chromatography	a technique for separating the contents of a mixture e.g. different food colouring agents
2	atom	the smallest neutral part of an element that can take part in chemical reactions.	38	mobile phase	in paper chromatography, this is when the solvent moves along the paper carrying the dissolved samples with it
3	molecules	a particle consisting of 2 or more atoms joined together	39	stationary phase	the surface through which the solvent and dissolved substances move through in chromatography
4	particle model	another name for the kinetic theory	40	R_f value	the ratio of distance travelled by a solute on a chromatogram to the distance travelled by a solute under the same conditions
5	physical change	a change into which no new substances are formed, such as a change in state	41	distillation	the process of removing a liquid from a mixture by evaporating it and then condensing it (so it can be collected)
6	chemical change	a change that produces a new substance	42	still	a piece of apparatus used to carry out distillation or fractional distillation
7	attractive forces	forces involving oppositely polarity or charge. objects move together if the force is sufficient	43	fractional distillation	a method for separating a mixture of liquids with different boiling points into individual components (fractions)
8	melting point	the temperature at which a substance changes from the solid state to the liquid state when heated, or from the liquid state to the solid state when cooled	44	desalination	a process that produces fresh drinking water by separating the water from the salts in salty water
9	boiling point	the temperature when a substance changes from a liquid to a gas	45	simple distillation	the process of separating a liquid from the mixture by evaporating the fluid then condensing it so it can be collected

Chemistry

10	sublimation	when solid changes directly to a gas without becoming a liquid first	46	precipitates	an insoluble solution that is formed after two soluble substances react together in a solution
11	evaporation	when a liquid turns into a gas	47	aquifers	an underground layer of rock containing groundwater which can be extracted used a well or a pump
12	condensing	when a gas turns into a liquid	48	sedimentation	the process in which rock grains and insoluble substances sink to the bottom of a liquid
13	deposition	when a gas changes directly to a solid	49	chlorination	the process of adding chlorine to a substance, often water
14	freezing	when a liquid turns into a solid	50	subatomic particles	a particle that is smaller than an atom, such as a proton, neutron or electron
15	pure substance	a substance with a fixed composition that does not have anything else mixed with it	51	protons	a particle found in the nucleus of an atom, having a positive charge and the same mass as a neutron
16	element	a simple substance made up of only one type of atom	52	neutrons	a particle found in the nucleus of an atom having zero charge and mass of 1 (relative to proton)
17	compound	a substance that can be split into simpler substances because it contains the atoms of two or more elements joined together	53	electrons	a tiny particle with a negative charge and very little mass
18	mixture	a substance containing two or more different substances that are not joined together	54	relative mass	the mass of something compared to something else, which is often given the value of 1
19	physical property	a description of how a material behaves and responds to forces and energy. for example, hardness is a physical property	55	relative charge	charge compared to something else. as the charge on an electron is -1 the charge on a proton is +1. these are not absolute charges, just equal and opposite, by comparison
20	chemical property	how a substance reacts with other substances e.g. oxygen and hydrogen form water	56	atomic nucleus	centre of the atom, dense and positively charged

Chemistry

21	insoluble	a substance that cannot be dissolved in certain liquids	57	electron shells	areas around the nucleus that can be occupied by electrons and are usually drawn as circles. also called an electron energy level or an 'orbit'
22	filtration	using a filter to separate insoluble substances from a liquid	58	mass number	the number of protons and neutrons in the nucleus of an atom (symbol a). it is also known as the nucleon number
23	solution	formed when a substance dissolves in a liquid	59	atomic number	the number of protons in the nucleus of an atom (symbol z). it is also known as the proton number
24	solutes	a substance that dissolves in solvent make a solution	60	isotopes	atoms of an element with the same number of protons (atomic number) but different mass numbers due to different numbers of neutrons
25	solvent	a liquid in which a substance dissolves in to make a solution	61	nuclear fission	when the nucleus of a large atom such as uranium, splits into two smaller nuclei
26	crystallisation	separating a solute from a solution by evaporating the solvent	62	relative atomic mass	the mean mass of an atom relative to the mass of an atom of carbon-12, which is assigned a mass of 12. the ram of an element is the mean relative mass of the isotopes in the element
27	Periodic table	The chart in which the elements are arranged in order of increasing atomic number.	63	predictions	What you think will happen in an experiment (usually giving an explanation of why you think this is)
28	Chemical properties	How a substance reacts with other substances e.g. oxygen and hydrogen form water	64	inert	Does not react.
29	saturated	A molecule that contains only single bonds between the carbon atoms in the chain	65	period	The horizontal row in the periodic table
30	Filtrate	A solution that has passed through a filter	66	group	A vertical column of elements in the periodic table. Elements in the same group usually have the similar properties

Chemistry

31	residue	material remaining in the filter after a mixture has passed through it	67	electronic configuration	the arrangement of electrons in shells around the nucleus of an atom
32	risk assessment	identification of the hazards of doing an experiment and ways of reducing the risk of harm from those hazards	68	ions	an atom or a group of atoms with an electrical charge due to the gain or loss of electrons
33	hazard	something that could cause harm	69	cations	a positively charged ion formed by losing electrons
34	electrostatic force	the force of attraction between two oppositely charged particles and the force of repulsion between particles with the same charge	70	anions	a negatively charged ion formed by gaining electrons
35	ionic bond	a strong electrostatic force of attraction between oppositely charged ions	71	aqueous solution	a mixture that is formed when a substance is dissolved in water
36	ionic compounds	a substance made up of ions of different elements	72	anode	positive electrode

Geography: Crime

1	built environment	all the built things around us; buildings, streets, bridges
2	burglary	breaking into a building to steal
3	cctv	closed circuit television, used in shops and on streets to fight crime
4	common assault	hitting or threatening to hit someone
5	crime	an action that breaks the law
6	criminal	someone who commits a serious crime or lives a life of crime
7	defensible space	a space the people can watch over and protect from criminals
8	designing out crime	you design new housing estates and other buildings to make them as crime proof as possible
9	domestic violence	violence in the home
10	environmental crime	an action such as illegal dumping of harmful waste into rivers
11	forgery	faking a document or a signature
12	fraud	making false claims, usually in order to make money
13	mugging	attacking a person in the street in order to steal something
14	neighbourhood watch	a scheme where neighbours keep an eye on each other's homes to help prevent crime
15	secure accommodation	a type of prison for young offenders
16	target hardening	installing things to make it harder for criminals to get at their targets (for instance steel shutters on a shop)
17	terrorism	violent acts (such as bombings) carried out for political reasons
18	traffic offences	offences to do with driving and parking vehicles
19	vandalism	damaging things on purpose, for example graffiting a playground
20	victim	a person against whom a crime is committed

Geography: Antarctica

1	adaption	any alteration in the structure or function of an organism or any of its parts that results from natural selection and by which the organism becomes better fitted to survive and multiply in its environment
2	desert	a desert is a barren area of landscape where little precipitation occurs and consequently living conditions are hostile for plant and animal life
3	expedition	a journey undertaken by a group of people with a particular purpose, especially that of exploration.
4	ice shelf	an ice shelf is a thick floating platform of ice that forms where a glacier or ice sheet flows down to a coastline and onto the ocean surface
5	impact	to have a strong effect on someone or something
6	krill	krill are small crustaceans of the order euphausiacea, and are found in all the world's oceans. the name "krill" comes from the norwegian word krill, meaning "small fry of fish"
7	latitude	a geographic coordinate that specifies the north–south position of a point on the earth's surface
8	longitude	a geographic coordinate that specifies the east-west position of a point on the earth's surface
9	penguin	a group of aquatic, flightless birds. they live almost exclusively in the southern hemisphere
10	polar bear	a carnivorous bear whose native range lies largely within the arctic circle, encompassing the arctic ocean, its surrounding seas and surrounding land masses
11	regulation	a rule or directive made and maintained by people in authority
12	site of special scientific interest (SSSI)	a conservation designation denoting a protected area
13	South Magnetic Pole	the point to which the south on your magnet points. it moves around as the magnetic fields around earth shift
14	South Pole	this is geographic south pole. the southern point on which the world spins
15	tourism	travel for education, business or pleasure

Geography: Population, Rocks and Stones.

1	appropriate technology	Technology that is best suited to the needs, skills, knowledge and wealth of people in the region in which they live. It usually combines simple ideas with cheap, easy to access materials for use in poorer countries. These technologies are normally environmentally friendly.
2	birth rate	the number of births in a year per 1,000 of total population
3	chemical weathering	the decomposition (or rotting) of rocks caused by a chemical change
4	corrie (also called cirque)	arm-chair shaped hollow in mountainside caused by glacial erosion and freeze-thaw weathering
5	death rate	the number of deaths in a year per 1,000 of total population
6	erratics	rocks that have been transported and deposited some distance from their source region.
7	impermeable	a material (e.g. a rock) that does not allow water to infiltrate or pass through it
8	infant mortality	the average number of deaths of infants under 1 year of age, per 1,000 live births, per year
9	erosion	the wearing away and removal of material by a moving force
10	mega cities	an urban area with a total population in excess of 10 million people
11	life expectancy	the number of years a person is expected to live
12	population density	the average number of people per square kilometer
13	morain	frost shattered rock debris and material eroded from the valley floor

Geography: Population, Rocks and Stones.

14	natural decrease	population decline due to the birth rate being lower than the death rate
15	natural increase	the birth rate minus the death rate of a population
16	permeable	allowing water to flow through
17	igneous rocks	formed from magma that has cooled down
18	ageing population	an increasing number of older people in a country's population structure
19	population distribution	a measure of how crowded a place is
20	sparsely populated	an area that has few people living in it
21	population pyramid	a special bar chart that shows ages of the population, divided into males and females
22	sedimentary	formed by layers of sediment at the bottom of the sea which turns into rock as it is compressed
23	metamorphic	formed from igneous and sedimentary rock that have been put under intense pressure and heat under ground
24	geological	the study of the earth's physical structures such as rocks, mountains, metals and precious stones
25	fossil	the remains or impression of a prehistoric plant or animal embedded in rock and preserved in petrified form
26	landscape	A landscape is the visible features of an area of land, its landforms and how they integrate with natural or man-made features

Geography: Newly Emergent Economy (Brazil) and Coasts

1	abrasion	the wearing away of cliffs by sediment flung by breaking waves
2	arch	a wave-eroded passage through a small headland. this begins as a cave formed in the headland, which is gradually widened and deepened until it cuts through
3	attrition	erosion caused when rocks and boulders, transported by waves, bump into each other and break up into smaller pieces
4	bar	where a spit grows across a bay, eventually blocking the bay and creating a lagoon behind it. bars may also form offshore as a long ridge of sand in the seas and oceans
5	bays	an area of less resistant rock that has eroded away between headlands of more resistant rock. bays normally form sheltered harbours or beaches
6	beach	the zone of deposited material that extends from the low water line to the limit of storm waves. the beach or shore can be divided into the foreshore and backshore
7	beach nourishment	the artificial addition of beach material to a beach, usually by dumping large amounts of sand or shingle
8	BRICs	four of the world's fastest growing economies; brazil, russia, india and china
9	cave	a large hole in a cliff caused by waves forcing their way into cracks in the cliff face
10	cliff	a steep, high rock face formed by weathering and erosion along the coastline
11	deposition	occurs when material being transported by the sea is dropped due to the sea losing energy
13	development	the progress of a country in terms of economic growth, use of technology, and human welfare
14	dune regeneration	action taken to build up dunes and increase vegetation to strengthen the dunes and prevent excessive coastal retreat
15	economic migrant	someone who migrates with the main purpose of finding work or escaping poverty
16	erosion	the wearing away and removal of material by a moving force such as a breaking wave

Geography: Newly Emergent Economy (Brazil) and Coasts

17	foreign direct investment	sums of money a transnational corporation spends on building or buying up operations in another country
18	formal economy	employment that is legal - people get a regular wage and pay taxes in this wage
19	hard engineering	the use of concrete and large artificial structures to defend land against the natural erosion processes
20	hydraulic power	the process by which breaking waves compress pockets of air in cracks in a cliff. the pressure may cause the crack to widen, breaking off rock
21	inequalities	differences between poverty, wealth, wellbeing and access to things like jobs, housing and education
22	informal economy	this is work done for which people are paid but it is unofficial so workers have no rights and no taxes are paid
23	infrastructure	the basic equipment and structures needed for a country or region to function properly i.e. roads, water, sewers
24	longshore drift	the zigzag movement of sediment along the shore caused by waves travelling up the beach at an oblique angle and down the beach at a right angle. the results is the gradual movement of material along the beach
25	Newly Emergent Economy (NEE)	countries that have begun to experience high rates of economic development, usually with rapid industrialisation
26	pioneer species	simple, tough plants that can survive in places where most others cannot due to a lack of soil or extreme climate
27	rock armour	large boulders dumped on the beach as part of coastal defences
28	sea wall	a concrete which protects the coastline from the erosional power of waves by reflecting the wave energy back to sea
29	squatter development	an area of poor-quality housing, lacking in amenities such as water supply, sewerage and electricity. it often occurs spontaneously and illegally in cities in low-income countries
30	stack	an isolate pillar of rock left when the top of an arch has collapsed. over time further erosions reduces this to a stump
31	urbanisation	the process by which an increasing percentage of the country's population comes to live in towns and cities. rapid urbanisation is a feature of many LICs and NEEs
32	waves	ripples in the sea caused by the transfer of energy from the wind blowing over the surface of the sea

