# Core Questions Year 8 Summer Term 2022/23



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# English

1. What is tone?	The writer's attitude towards the subject.
2. What is a stanza?	A group of lines separated from others in a poem.  The word for 'paragraph' in poems.
3. What is enjambment?	The running over of a sentence from one line to the next without a piece of punctuation at the end of the line.
4. What is caesura?	A stop or a pause in a line of poetry – usually caused by punctuation such as a full stop.
5. What is an end-stopped line?	A line of poetry ending in a piece of punctuation which results in a pause.
6. What is rhyme?	The repetition of syllable sounds – usually at the ends of lines, but sometimes in the middle of a line (called internal rhyme).
7. What is a simile?	A direct comparison made using the words 'like' or 'as.'
8. What is a metaphor?	A comparison – made directly or indirectly – without using 'like' or 'as.' Metaphors have 'tenors' (what is being described) and 'vehicles' (an imaginative idea that the tenor is being compared to).
9. What is personification?	Giving human characteristics to something which is not human.
10. What is form?	Form is the physical structure of the poem: the length of the lines, their rhythms, and their system of rhymes and repetition.
11. What is onomatopoeia?	Words which attempt to imitate sounds.
12. What is alliteration?	A repetition of consonant sounds.
13. What is an oxymoron?	A figure of speech in which two contradictory things are placed together in a way which makes peculiar sense. For example, 'friendly fire.'
14. What is hyperbole?	Exaggeration.
15. What is 'rhythm'?	The 'beat' of a poem, created by the poet thinking carefully about the amount of syllables (beats) in each line of poetry.
16. What is a sematic field?	A set of words relating to the same topic. 'Foul' and 'Shot' would appear in the semantic field of sports.
17. What is assonance?	A repetition of vowel sounds.
18. What is blank verse?	A poem that does not have a rhyme scheme but does have a consistent meter (rhythm).
19. What is free verse?	Non-rhyming, non-rhythmical poetry.
20. What is a volta?	A turning point in the line of thought or argument in poem; a shift in the poem's tone.

### Maths

	Question	Answer
1	What is algebra?	Algebra is a branch of mathematics where unknown
-	what is digesta.	quantities are represented using letters such as $x$ and $y$ .
2	What is a variable?	A variable is an unknown number or quantity that is
		represented by a letter such as $x$ or $y$
3	What is a constant?	A constant is a number which value is always the same.
4	What is a coefficient?	A coefficient is a constant that is placed before a variable in an expression.
5	What is a term?	A term is part of an expression that are separated by a + or – sign. An algebraic term can be a variable, a coefficient, a constant or a combination of these.
6	What is an expression?	An algebraic expression consists of a set of terms which are connected by the operations add, subtract, multiply, and divide.
7	What does it mean to simplify an algebraic expression?	Expressions can be simplified by collecting like terms.
8	What is substitution?	In algebra, substitution is the process of replacing a variable with a number in order to calculate the value of an expression.
9	What do we mean by expanding brackets?	Expanding brackets is the process of simplifying an expression by removing the brackets.
10	What is an equation?	An algebraic equation is a mathematical statement where two expressions are equal. The equals sign (=) is used to show that two expressions are equal.
11	What do we mean by solving an equation?	An equation is solved by finding the value of the unknown variable(s). Any value that satisfies the equation is called a solution.
12	What is an inequality?	An inequality compares two values, showing if one is less than, greater than, or not equal to another value.
13	What is a linear sequence?	A number pattern which increases by the same amount each time.
14	What is a non-linear sequence?	Non – linear sequences do not increase from term to term by a constant amount. Examples of this include quadratic sequences, geometric sequence, Fibonacci sequence.
15	What is the addition law of indices?	When multiplying two or more terms which are presented in index form, we add the powers if they have the same base. $a^m \times a^n = a^{m+n}$
16	What is the subtraction law of indices?	When dividing two or more terms which are presented in index form, we subtract the powers if they have the same base. $a^m - a^n = a^{m-n}$

### History

	Core Question	Answer
1	What is militarism?	The building of military weapons and naval and armed forces.
2	What is an Alliance?	An Agreement between countries often to support in a war
3	What is imperialism?	Taking control of lands and territories. The policy to build an Empire
4	What is Nationalism?	An extreme form of patriotism – believing that your country is superior and the desire to rule oneself.
5	When was the Archduke Franz Ferdinand assassinated?	28 <sup>th</sup> June 1914
6	What is propaganda?	Persuasive media
7	When was conscription introduced?	January 1916
8	What is a conscientious objector?	People who had a strong moral, political and religious reason for not fighting.
9	How far did the front line stretch?	From the English channel to Switzerland.
10	What was no man's land?	Area between the two front lines.
11	What were the PALS battalions?	Friends would join and fight together.
12	What was the biggest killer in the war?	artillery
13	When did the first World war end?	11am 11 <sup>th</sup> November 1918
14	What Treaty did Germany sign to end the First World War	Treaty of Versailles

# Spanish

Si	ngular		
Me encanta	el agua water		asqueroso/a disgusting
l love	el arroz rice		delicioso/a delicious
Me gusta mucho	el café coffee	porque os	dulce sweet
I like a lot	la carne meat	porque es because it is	
7 1110 0 101	el chocolate		duro/a tough
Me gusta	la ensalada verde		grasiento/a oily/greasy
l like	green salad		malsano/a unhealthy
Me gusta un poco	la fruta fruit		picante spicy
I like a bit	la miel honey		
	el pan bread		refrescante refreshing
No me gusta (nada)	el pescado fish		rico/a delicious
I don't like (at all)	el pollo asado		sabroso/a tasty
Odio	roast chicken		salado/a salty
I hate	el queso cheese		sano/a healthy
D. C.	el zumo de fruta		·
<b>Prefiero</b> I prefer	fruit juice		saludable healthy
pielei			
A mi <u>hermano</u> le gusta			
My brother likes	Discoul		
Me encantan	Plural los chocolates		asquerosos/as disgusting
llove	chocolates		
	las fresas		deliciosos/as delicious
Me gustan mucho	strawberries	porque son	dulce sweet
I like a lot	las gambas	because they are	duros/as tough
Me gustan	prawns las hamburguesas	They are	grasientos/as oily/greasy
l like	hamburgers		, , ,
	los huevos		malsanos/as unhealthy
Me gustan un poco	eggs		<b>picantes</b> spicy
l like a bit	las manzanas apples		refrescantes refreshing
No me gustan (nada)	las naranjas		ricos/as delicious
I don't like (at all)	oranges		sabrosos/as tasty
Odia	los plátanos		,
<b>Odio</b> I hate	bananas los tomates		salados/as salty
THOIC	tomatoes		sanos/as healthy
Prefiero	las verduras		saludables healthy
I prefer	vegetables		

1	In my time free, I love to cook and make cakes.	En mi tiempo libre <b>me encanta cocinar</b> y <b>hacer</b> pasteles.
2	My food favourite <b>is</b> paella of seafood. How tasty!	Mi comida favorita <b>es</b> paella de mariscos. ¡Qué sabrosa!
3	Often, I cook for all my family.	A menudo <b>cocino</b> para toda mi familia.
4	My brother <b>likes</b> the fish with potatoes fried (chips).	A mi hermano <b>le gusta</b> el pescado con patatas fritas.
5	Tomorrow <b>I'm going to cook</b> meat of cow (beef) with vegetables for my parents	Mañana <b>voy a cocinar</b> carne de vaca con verduras para mis padres
6	and <b>we are going to eat</b> after the eight. (8 o'clock)	y <b>vamos a comer</b> después de las ocho.

# Religious Studies

	Core Question	Answer
1	What is meant by social justice?	Ensuring that society treats people fairly whether they are poor or wealthy and protects peoples' human rights.
2	What are human rights?	The basic rights and freedoms to which all human beings should be entitled.
3	What is meant by equality?	The state of being equal, especially in status, rights and opportunities.
4	What is prejudice?	Unfairly judging someone before the facts are known; holding biased opinions about an individual or group.
5	What is discrimination?	Actions or behaviour that result from prejudice.
6	What does heterosexual mean?	To be sexually attracted to members of the opposite sex.
7	What does homosexual mean?	To be sexually attracted to members of the same sex.
8	What does freedom of religion mean?	The right to believe or practise whatever religion one chooses.
9	What does freedom of religious expression mean?	The right to worship, preach and practise one's faith in whatever way one chooses.
10	What is meant by disability?	A physical or mental impairment which has an adverse effect on a person's ability to carry out normal day-to-day activities.
11	What is positive discrimination?	Treating people more favourably because they have been discriminated against in the past or have disabilities.
12	Who was Gandhi?	An Indian lawyer and political ethicist who employed nonviolent resistance.
13	How ruled India before 1947?	Britain (part of the British Empire)
14	What is racism?	Showing prejudice against someone because of their ethnic group or nationality.
15	What is stereotyping?	Having an over-simplified mental image of people and applying it to everyone in the group.
16	What is scapegoating?	Blaming certain groups for problems in society.
17	What is religious prejudice?	Prejudice based on religion or beliefs.
18	Who are the UN?	The United Nations is an intergovernmental organization whose purpose is to maintain international peace and security, develop friendly relations among nations, achieve international cooperation, and be a centre for harmonizing the actions of nations.
19	What is a refugee?	A person who has been forced to leave their country in order to escape war, persecution, or natural disaster.

20	How can people in need be	~	Providing resources after a natural disaster
	helped?	>	Purchasing fair trade products
		>	Giving money to a charity which aims to build and sustain
			schools in war torn countries
		>	Sending doctors and nurses to countries stricken with an
			outbreak of a disease/virus
		>	Providing shelter to those whose homes have been
			destroyed by natural disasters
		>	Setting up refugee camps when people are forced to flee
			their country

### ICT

1	Inkscape	An open source and cross-platform application for editing vector graphics.
1	тиксаре	An open source and cross-platform application for eating vector graphics.
2	Vector graphic	A simple digital image created using paths.
3	Path	A line or a shape used to create vector graphics.
4	Bitmap image	A detailed image created with pixels.
5	Pixel	A tiny square of colour.
6	Stroke	The border of a shape.
7	Logo	A symbol that is used to represent an organisation or a product.
8	Scalable	When an object or image is able to be made bigger or smaller.
9	Illustration	Can be a decoration or pictorial representation of something, for example a cartoon cat.
10	Z-order	The order of overlapping objects used to create a vector graphic.
	2 5.45.	o. do. o. overlapping objects osca to dredie a vector graphic.
11	Union	An operation used to combine two or more paths to create a single path.
12	Intersection	An operation used to create a single path from the overlapping portion of two paths.
13	Equidistant	Being the same distance away as another.

# PE

	PE Core Question:	I
1	Why do we warm up?	To gradually prepare the body for exercise and to avoid injury
2	What are the 3 components of a warm-up?	Pulse raiser (running, skipping, ect) Dynamic Stretches Sport Specific Drill
3	What happens to the body when we warm up?	Muscles require higher amounts of oxygen, heart rate and oxygen intake thus increases to transport oxygenated blood to the working muscles via the blood vessels. This increase blood flow prepares the body for exercise.
4	What is the difference between a static and dynamic stretches?	Static means to stretch and not move. Dynamic means movement stretches
5	Give an example of a sport's specific warm-up.	Dribbling with a ball, passing, controlling shots. This is all done at a low to medium level of intensity.
6	Discuss how students should keep safe when taking part in PE?	Proper and full warm-up Remove jewellery Listen to all instructions Follow the rules of the game/activity.
7	Explain the techniques for catching? How should this be completed?	Thumbs touching and fingers pointed to the sky. Show partner a W to show you are ready.
8	How do we kick a ball in football, discuss the various techniques.	Place standing foot alongside the ball Use side foot of kicking foot for connection Follow through to direction of pass  Vary the power dependent on distance.
9	What are the 4 ways we assess within PE?	Thinking Me Social Me Physical Me Healthy Me
10	How do we give effective feedback to others in PE lessons?	Watch your partner Look out for the key teaching points Tell them what they are doing well Tell them what they need to improve. Use full sentences and make reference to the teaching points.
11	Discuss 3 rules you must follow when you play badminton. Consider the start of the game and how to win points.	Serve below the shoulders Shuttle must not be thrown in the air before hitting this to start the game You cannot hit the shuttle twice The shuttle must go over the net The shuttle must land in the court area
12	What is 'Cardiovascular Endurance' and give a sports example.	This is the ability of the cardio (heart and blood) respiratory (lungs) to work efficiently over time, without getting tired. Endurance means to continue for a long period of time.
13	What sports requires good amount of flexibility?	Dance Gymnastics

		Ice hockey Goalkeeper
		· · · · · · · · · · · · · · · · · · ·
		MMA/Judo
14	Give 2 sports that require a lot of power.	Rugby
		Sprint events (swim/run/cycle)
		Weightlifting
		Judo/Boxing/MMA
15	When you are acting as a leader/official in your	Talk clearly
	PE lesson, what characteristics should you show?	Project your voice
		Follow the rules of the game
		Make sure you keep the score
		Stand is a clear and visible area of the pitch
16	Name the 6 areas that make up physical fitness?	BASSFM (Acyromn)
		Balance, Aerobic Endurance, Strength, Speed, Flexibility
		and Muscular Endurance.
17	Name 3 sports that require good speed?	Sprint running/cycling/swimming
		Wingers in football and rugby
		Centre in netball
		Hockey players
18	Name 3 pieces of equipment in the fitness suite	Treadmill, Cross-trainer, bike, rower.
	that will help to improve your fitness levels.	, , ,
19	From any sport/activity of your choice, what skills	Student reflective response.
	(name 3) do you believe you have done well and	·
	think you are a strength.	
20	For your current activity, what level/grade do you	Self-reflection response.
	believe that you are and why?	Explain your thoughts and reasons.
	Bronze/Silver/Gold/Platinum	
L	I ' '	I

### Art

1	What is a tropical climate?	A tropical climate is a non-arid climate in which all twelve months have mean temperatures warmer than 18 °C. Tropical climates are normally found from the equator to 25 north and south latitude.
2	Name three tropical leaves.	Bird of paradise leaf, fan palm, banana leaf, areca palm, sansevieria, aralia leaf, fern frond
3	What type of artist is Mlle Hipolyte and what is main medium she uses?	Mlle Hipolyte is a French paper designer and illustrator who creates colourful sculpture out of paper.
4	What is origami?	The different paper folding techniques are grouped under the art of Origami. The word, Origami is formed of oru (folding) and kami (paper). Origami is a Japanese art in which the main aim is to create geometric folds of paper to represent a certain object.
5	Name three paper manipulation techniques.	Folding, quilling, wrinkling, weaving, twisting, curling, scoring
6	What is paper craft?	Paper Crafting involves a wide and varied mixture of several different hand on skills that people use to create one, two or three-dimensional objects in paper and card stock
7	What is form?	Something which has 3 dimensions e.g. a cube, sphere or sculpture.
8	What are harmonious colours?	Colours that are similar and close together on the colour wheel
9	What is the definition of texture?	The way something looks or feels e.g. smooth, rough, bumpy.
10	What is the difference between foreground and background?	The foreground is that part of the image that is closest to the viewer. The background is the part of the image that is further away from the viewer.

# Geography

CQ	Question	Answer	
1	What do we called the actions taken to reduce the	Posponsos	
impact of an event such as a volcanic eruption?		Responses	
2		One of the following:  • Evacuating Goma	
	Give one response to the eruption of Mount	Building aid camps	
	Nyiragongo.	Goma Volcano Observatory	
		Relocating residents from Goma	
3	One response to the eruption of Mount Nyiragongo was to evacuate the nearby city of Goma. What	To leave the place of danger to travel to a safer place.	
	does evacuate mean?	surer place.	
4	Why is evacuation a successful response to a volcanic eruption?	People are away from the danger	
5	Why was the building of aid camps an unsuccessful	Delay in processing people so they were	
	response to the eruption of Mount Nyiragongo?	stuck in makeshift camps with limited water and food	
6	Why was the Goma Volcano Observatory an	Lack of funding meant that the public wasn't	
	unsuccessful response to the eruption of Mount	informed about the signs of eruption	
7	Nyiragongo?	-	
7	Why has Ethiopia partially met MDG 1 "eradicate	Those in poverty has decreased by 20% but	
	extreme poverty and hunger"?	still 28% of people who don't have enough food	
8	Why has Ethiopia partially met MDG 2 "achieve	98% of children enrolled in primary school	
	universal primary education"?	but only 49% complete it	
9	Why has Ethiopia partially met MDG 3 "promote	Increase in the amount of women in	
	gender equality and empower women"?	government and girls in primary school but	
		women still working in more traditional roles	
10	Why has Ethiopia partially met MGG 4 "reduce child	Amount of deaths of under 5 year olds	
	mortality"?	reduced by 50% and 68% now vaccinated	
		but malaria and diarrhoea still kill a lot of	
11	Why has febinain portially and NADO F Himmer	children	
' '	Why has Ethiopia partially met MDG 5 "improve maternal health"?	Pregnant women get 4 medical visits but only 16% of births attended by medical	
	matemat neatur :	personnel	
12	Why has Ethiopia partially met MDG 6 "combat	100% of people can access malaria nets and	
	HIV/Aids, malaria and other diseases"?	89% live near a doctor but only 1 doctor per	
		1000 people	
13	Why has Ethiopia partially met MGG 7 "ensure	Deforestation and desertification reducing	
	environmental sustainability"?	number of species but Ethiopia are planting	
4.		trees to stop this	
14	Why has Ethiopia met MDG 8 "global partnership	Part of many trade partnerships such as	
15	for development"?	ACFTA	
16	What has happened to the Rwenzori Mountains?	Lost over half of its glaciers since 1906	
17	Why have the Rwenzori Glaciers melted?	Rising global temperatures and wild fires	
' '	Give a social impact of the melting of the Rwenzori Glaciers.	One of the following:	
	Glaciers.	Houses and schools destroyed	

		Town of Kalembe flattened
		Destruction of crops
		Destruction of sites of religious rituals
18	Give an economic impact of the melting of the	One of the following:
	Rwenzori Glaciers.	Less hydroelectricity means Uganda will
		have to buy expensive fossil fuels
		Less tourism will mean loss of jobs
19	Give an environmental impact of the melting of the	One of following:
	Rwenzori Glaciers.	Vegetation being washed away
		Landscape eroded by floodwater
		Less hydroelectricity means fossil fuel use
		will increase enhanced greenhouse effect
20	Chad is ethnically diverse. What does this mean?	There are a high amount of ethnic groups
21	Giving one impact being ethnically diverse has had	One of the following:
	on Chad.	Many religions
		Different types of music
		Different types of traditional dances
		Different types of cuisine
		Over 120 languages spoken
22	What is a cyclone?	A tropical storm that happens in the Indian
	•	Ocean
23	Where did Cyclone Idai start?	As a thunderstorm in Malawi
24	Which countries were hit hardest by rain during	Mozambique and Zimbabwe
	Cyclone Idai?	
25	Give one impact of Cyclone Idai.	One of the following:
		Flood water polluted clean water
		Cholera spread through flood water
		1300 people died
		1 million acres of crops destroyed
		Hard to reach survivors
		Cost \$2 billion
		Triggered landslides
		Destroyed power lines
		Storm surge hit city of Beira
26	One impact of Cyclone Idai was a storm surge	When low pressure raises the level of the
	hitting the city of Beira in Mozambique. What is a	ocean causing it to rise over land
	storm surge?	
27	90,000 people live in Makoko in Lagos, which is a	Collection of makeshift homes on illegally
	squatter settlement. What is a squatter settlement?	sourced land unsuitable for building
28	Give one reason why Lagos should demolish	One of the following:
	Makoko.	Water front location is ideal to build
		offices and housing
		People who live in Makoko are there
		illegally
		Grown too close to bridge and power cables
29	Give one reason why Lagos should improve	One of the following:
	Makoko.	Reduce flooding of buildings
		Educate students
30	Give a feature of the tropical grassland biome.	One of the following:

		<del> </del>
		Warm year round
		• 25-35°C
		Two seasons
		Wet and dry season
		Grasses with isolated trees
		Rich in wildlife
31	What is tourism?	The industry involved in travelling for
		recreation
32	Give one reason why tourism is posing a risk to the	One of the following:
	Serengeti.	Safari jeeps damage plants
		Safari jeeps disturb habitats
		Herding by Masai tribe disrupted by
		safaris
		Land taken off the Masai tribe
33	What is ecotourism?	Tourism that ensures the environment is
		protected and local communities are
		benefiting
34	Give one reason why Klein's Camp is protecting the	One of the following:
	environment in the Serengeti.	Walking safaris don't disturb plants and
	environment in the serengeti.	animals
		Safaris led by locals who know how to
		protect environment
35	Give one reason why Klein's Camp is benefitting	One of the following:
	local communities in the Serengeti.	Used money from sale of land for build
	local communities in the Serengen.	
		school and village office
		Used money from sale of land to pay for
		education of students of the village
		Locals employed by camp  Crofts and invallent model by Massi warners
		Crafts and jewellery made by Masai women
36	NAVIs a la aliancia della dell	sold
30	Who believed that population would exceed the	Malthus
37	amount of food resources?	<del>-</del> 1 · · · · · · · · · · · · · · · · · · ·
31	Malthus believed we would reach a "point of crisis".	The point where population would be higher
20	What is this?	than the number of resources.
38	Who believed that humans would not run of	Boserup
	resources such as food due to technological	
	advances?	
39	Boserup wrote, "Necessity is the mother of	If you need it, someone will invent it.
	invention". What does this mean?	
40	Give one piece of evidence from Africa that	One of the following:
	supports Malthus' theory.	14 million across Horn of Africa on verge
		of starvation
		Unrest in Egypt and Tunisia over price of
		food
		26000 people starved to death in
		Somalia in 2011
41	Give one piece of evidence from Africa that	One of the following:
	supports Boserup's theory.	Northern Ghana uses machinery in
		farming
		laming

		4 African countries grow GM crops
		Egypt is the top importer of food
42	Give one reason why the Aswan Dam was needed	One of the following:
	on the River Nile.	Flooding during wet years
		Not enough water for crops in a dry year
43	What is a dam?	A wall built across a river
44	What is a reservoir?	Artificial lake created behind a dam on a
		river
45	What is the name of the reservoir behind the Aswan Dam in Egypt?	Lake Nasser
46	Give one reason why the Aswan Dam can be seen as	One of the following:
	successful.	Protected areas of Egypt from flooding
		More water available for irrigation
		Farming has increased around River Nile
47	Give one reason why the Aswan Dam can be seen as	One of the following:
	unsuccessful.	Large area of land flooded
		10000 people made homeless
		Blocks the transport of nutrients to
		farmers fields
		Archaeological sites had to be moved
48	The United Nations is an international organisation.	A group of countries with a purpose e.g.
40	What is an international organisation?	peace or trade
49	The United Nations sends peacekeepers to areas of	A person who works for the UN and is
	conflict. What is a peacekeeper?	sent into a conflict to keep peace and
50	D. de 1004 e e e d'Italia (T. tri e e e la testa de la e	protect civilians
	During 1994, a genocide of Tutsi people took place. What is a genocide?	The deliberate killing of a certain group of people
51	Give one reason why the United Nations were	One of the following:
	unsuccessful in their role in the Rwanda Civil War.	Withdrew their peacekeepers
		Monitored the situation instead of
52		intervening
52	Many people living in LIDCs work in the informal	Jobs that are not taxed or monitored by
53	sector. What does this mean?	any form of government.
33	Give an advantage of working in the informal sector in Zambia.	One of the following:
	in Zambia.	Unskilled people given opportunity to  make manay
		<ul><li>make money</li><li>Don't have to attend interviews</li></ul>
		Flexible with no set hours
		All money earnt is kept
54	Give a disadvantage of working in the informal	One of the following:
	sector in Zambia.	No age restrictions
		Child labour increases
		Children working are vulnerable to
		hazards
		·
		1
55	What is Geographic Information Systems (GIS)?	The use of technology to add layers of
		data onto a base map
55	What is Geographic Information Systems (GIS)?	<ul> <li>No compensation</li> <li>Rainy season makes outside jobs limited to certain times of year</li> <li>The use of technology to add layers of</li> </ul>

56	How do you work out the number of degrees of the	Multiply by 3.6
	pie chart each percentage will be?	
57	How do you calculate the percentage increase	(increase ÷ original number) × 100
	between two numbers?	

### Science

	Question	Answer
1	Describe a transverse wave	Oscillations occur at right angles to direction of energy travel
2	Describe a longitudinal wave	Oscillations occur parallel to direction of energy travel
3	Give two examples of transverse waves	Light, ripple on a pond
4	Give two examples of longitudinal waves	Sound, a plucked slinky
5	How would you show that in a sound wave, the wave travels but not the air?	Observe a helium balloon in the path of the wave: it will oscillate about a fixed position
6	Define "amplitude"	The distance from the point of zero disturbance to the point of maximum disturbance
7	How would you measure the speed of sound waves?	Fire a starting pistol at distance, record the time between seeing the pistol flash and hearing the bang, speed = distance / time
8	How would you measure the speed of water waves?	Using a ripple tank and lamp, follow a single crest with a pencil and record the time from one end to the other. Speed = distance / time
9	What is the "electromagnetic spectrum"?	A set of electromagnetic waves with a range of frequencies, all travelling at the same speed in a vacuum
10	State the names of the waves in the EM spectrum in order from longest to shortest wavelength	Radio, microwave, infra-red, visible, ultra-violet, X-rays, gamma rays
11	Which group of electromagnetic waves has the longest wavelength?	Radio
12	Which group of electromagnetic waves has the highest frequency?	Gamma
13	Define "frequency"	Number of wave cycles in 1 second
14	Define "wavelength"	Distance from a point on a wave to the equivalent point on the next wave
15	Give the formula for wave velocity, frequency and wavelength	$V = f\lambda$ Velocity = frequency x wavelength
16	What happens in reflection?	A wave bounces off the surface of a material
17	What is "colour"?	A property of visible light determined by its frequency
18	What happens in refraction?	A wave changes direction as it travels through a material because it changes speed

19	What happens in absorption?	The wave's energy is transferred to an atom and the wave is
		stopped
20	What happens in transmission?	Waves pass through a material
21	Why do we see a green object as green?	It reflects green light and absorbs all other wavelength
22	How does a blue filter work?	It transmits blue light and absorbs all other wavelengths