



# Half Term 5 and 6 Triple Science Year 10

Name: \_\_\_\_\_

# GREENSHAW LEARNING TRUST

#### **Year 10 Homework Timetable**

Monday	English Task I	Ebacc Option A Task I	Option C Task I	
Tuesday	Tassomai	Option B Task I	Modern Britain Task I	
Wednesday	Sparx	Science Task I	Option C Task 2	
Thursday	Ebacc Option A Task 2	Tassomai	Option B Task 2	Modern Britain Task 2
Friday	Sparx	Science Task 2	English Task 2	

# Tassomai - 2 Daily Goals per week Sparx - 4 tasks of Sparx per week

Option A (EBACC)
French
Geography
History

Open B
Art
Business Studies
Catering
Computer Science
History
Health & Social Care
Music
Sport
IT
·

Open C
Business Studies
Childcare
Catering
Drama
Geography
Health & Social Care
Triple Science
Sport

#### Half Term 5 - Year 10 - Homework Plan Science

Week/Date	Homework Task	Examination Question
Week 1	Biology retrieval practice (one full page of answers and corrections) No copying of questions.	Answer the exam question on plant hormones
Week 2	Chemistry retrieval practice (one full page of answers and corrections) No copying of questions.	Answer the exam question identifying ions
Week 3	Physics retrieval practice (one full page of answers and corrections) No copying of questions.	Answer the exam question on pressure
Week 4	Biology retrieval practice (one full page of answers and corrections) No copying of questions.	Answer the exam question on ultrasound
Week 5	Chemistry retrieval practice (one full page of answers and corrections) No copying of questions.	Answer the exam question on theories of evolution
Week 6	Physics retrieval practice (one full page of answers and corrections) No copying of questions.	Answer the exam question on electrolysis

#### Half Term 6 - Year 10 - Homework Plan Science

Week/Date	Homework Task	Examination Question
Week 1	Biology retrieval practice (one full page of answers and corrections) No copying of questions.	Answer the exam questions on homeostasis
Week 2	Chemistry retrieval practice (one full page of answers and corrections) No copying of questions.	Answer the exam question on structure and bonding
Week 3	Physics retrieval practice (one full page of answers and corrections) No copying of questions.	Answer the exam question on space
Week 4	Biology retrieval practice (one full page of answers and corrections) No copying of questions.	Answer the exam question on the brain
Week 5	Chemistry retrieval practice (one full page of answers and corrections) No copying of questions.	Answer the exam question on fuel cells
Week 6	Chemistry retrieval practice (one full page of answers and corrections) No copying of questions.	Answer the exam question on radioactivity

# **Biology Knowledge Organiser Half Term 5 and 6**

#	Questions	Answer
1	In which organ is urea filtered out of the body?	Kidney
2	How are waste substances filtered out of the body	Waste is filtered in the kidneys by selective reabsorption. The useful substances such as glucose are reabsorbed and waste products such as urea are removed in the urine.
3	Name the main processes involved in the water cycle.	Evaporation, condensation, precipitation, percolation and transpiration.
4	Suggest why intensive farming is an advantage for farmers.	Intensive farming reduces energy waste and therefore makes farming more energy efficient.
5	Explain why intensive farming is more energy efficient than traditional farming.	During intensive farming the animals temperature is controlled so that less energy is wasted controlling body temperature. The animals' movement is also restricted so less energy is wasted due to movement. The animals are also closer together to conserve energy.
6	Explain why intensive farming can also be a disadvantage.	Diseases can spread rapidly, can cause emotional distress to the animals, can cause aggressive behaviour in animals, and lead to an increased use of antibiotics.
7	Why is being able to considerably lower body temperature an advantage for some animals?	Leds to less energy being lost in certain circumstances such as periods of inactivity.
8	Explain what happens in the body to regulate temperature if it gets too hot.	Sweating - the evaporation of sweat from the skin's surface causes cooling.  Vasodilation - blood vessels dilate which means more blood can flow near the skin's surface leading to more energy being lost and therefore cooling.
9	Name the hormone responsible for plant responses to light and gravity.	Auxin
10	What is a plants response to light called?	Phototropism
11	How does auxin cause shoots to bend towards the light.	Auxin will build up on the side away from the light, this causes elongation just before the tip causing the shoot to bend towards the light.
12	Name the toxic substance produced when amino acids are broken down.	Urea
13	In which organ is urea made?	Liver
	Identify the role of the brain.	
14		
15	Name the 3 main sections of the brain.  Which area of the brain is responsible for balance and	Medulla, cerebellum, cerebral cortex
16	coordination?	Cerebellum
17	Explain why Darwin's theory of natural selection was not accepted straight away.	There was insufficient scientific evidence, the mechanism of inheritance was not yet known and it went against religious beliefs at the time.  Darwin suggested that evolution occurred due to
18	Compare Darwin's theory of evolution to Lamarck's theory of evolution.	mutations leading to a change, normally due to a change in environment. This would give a survival advantage so those with the mutation would survive, breed and pass on their genes. This would repeat over many generations. However, Lamarck suggested that

		features were acquired within an organism's lifetime and
		these characteristics were then passed onto offspring.
19	Describe how species can become isolated.	Species can become isolated by geographical locations.
		Isolation can prevent interbreeding and the combination
		of genes within a species different mutations can take
		place in the isolated groups and create different
		phenotypes within a particular location. Over time
		species may evolve to be different to each other, and
20	Describe the process of speciation	they will not be able to interbreed.
		Charles Darwin described the speciation of finches after
	Explain the roles of Alfred Wallace and Charles Darwin	his studies of the birds on the Galapágos Islands.
	in the development of the theory of evolution and the	Wallace also proposed natural selection through his
21	idea of speciation.	studies of warning colouration in different species.
		Mendel made the observation that pea plants had
		characteristics that varied from plant to plant.
		He carried out experiments crossing (mating) plants with
		different characteristics and concluded:
		<ul> <li>Characteristics are determined by factors within the organism (now known to be genes)</li> </ul>
		I hat the factors (genes) can be present in 2 different forms (now known as alleles)
		That the 2 factors (alleles) in an individual
		separate during gamete formation (now known
22	Explain what Mendel discovered from his experiments on pea plants.	as meiosis)
		Microscopes allowed for chromosomes and cell division
	Explain how the development of the microscope	to be observed and therefore for Mendel's theory to be
23	contributed to Mendel's theories being accepted.	evidenced.
24	Name the two types of organism involved in decay.	Bacteria and fungi (decomposers)
		The temperature must be warm and there must be
25	Describe the conditions needed for decay to happen quickly.	water and oxygen present.
	quickly.	In the summer, the average temperature is higher which
	Explain why waste in a compost bin will decay more	is more optimal for decomposers to work at. Therefore,
26	rapidly in the summer.	decay will occur faster.
	Tapiary III and Carrinton.	Asexual reproduction involves only one parent
27	Describe the process of asexual reproduction.	reproducing to create genetically identical offspring.
		The benefits of asexual reproduction is that it only
		requires only one parent so it is faster and it can be
		used to make large amounts of the same crop.
		However, due to the lack of genetic variation, diseases
		can spread quickly through a population.
		Sexual reproduction leads to genetic variation but
	Evaluate the benefits and drawbacks of sexual and	requires two parents so takes more time. It also means
28	asexual reproduction.	the species is able to adapt to new environments

# **Chemistry Knowledge Organiser Half Term 5 and 6**

#	Questions	Answer
	Before metals are recycled why are any other materials	Removes any impurities so you have the pure metal
1	removed from them?	recycled and not a mixture.
2	How is most metal recycled?	It is melted down and then reshaped.
3	How can glass bottles be recycled?	Crush and melt into new products.
		Some resources are finite and need to be conserved /
		less energy will be required for recycling than extracting
4	Why do we need to recycle some resources?	more raw materials.
5	Name the solution used to identify if a halide is present	Sodium hydroxide.

	in solution	
6	What colour precipitate will copper form?	Blue
	What colour precipitate will aluminium, calcium and magnesium all form?	White
	Name the solution used to test for the presence of sulfate ions in solution.	Barium chloride
9	What colour precipitate will form if sulfate ions are present in solution?	White
10	Mass is always conserved in a reaction but sometimes it may appear that mass is lost. Explain why.	measured.
11	Mass is always conserved in a reaction but sometimes it may appear that mass is gained. Explain why.	If a gas is a reactant then its initial mass would not have been taken into account meaning it appears to have gained mass.
12	In a reaction, how can you tell that the reaction is complete?	No more product will form so the mass / volume will remain the same.
13	Describe how to test for the presence of chlorine gas.	Damp litmus paper will bleach (turn white) in the presence of chlorine gas.
14	What is the most abundant element in air?	Nitrogen/N2
	Since the Earth's early atmosphere, what has happened to the percentages of oxygen, nitrogen and carbon	The percentages of oxygen and nitrogen have increased and the percentage of carbon dioxide has
15	dioxide.  Why did the formation of the Earth's early oceans cause a decrease in atmospheric carbon dioxide	decreased.
16	concentrations?	The carbon dioxide dissolved in the water
17	Describe how the electric charge is carried through the electrolyte in a simple chemical cell.	Electrical current is carried by electrons in the wire and electrodes, but it is carried by anions and cations moving in opposite directions in the electrolyte.
	Explain the difference between a cell and a battery.	A cell is a single unit of device that converts chemical energy into electrical energy. A battery is a collection of cells that converts chemical energy into electrical energy
	Explain why non-rechargeable cells stop producing electricity.	In non-rechargeable cells, eg alkaline cells, a voltage is produced until one of the reactants is used up. When this happens, we say the battery 'goes flat'.
21	Explain why it is important that used cells and batteries are not thrown away in household rubbish.	Batteries that are thrown into ordinary bins, household waste or with other recycling are extremely dangerous as they can explode and cause fires
22	Identify the only chemical product from a hydrogen fuel cell.	Water
		hydrogen + oxygen → water
23	Write an overall equation for the reaction that takes place in a hydrogen fuel cell.	$2H_2(g) + O_2(g) \rightarrow 2H_2O(I)$
24	Explain why a fuel cell reaction is a redox reaction.	Both oxidation and reduction occurs within the cell.
27		The hydrogen oxygen fuel cell is an energy conversion device while the rechargeable battery is an energy storage device. Fuel cells can provide energy for longer
25	Evaluate the use of a hydrogen fuel cell compared with a rechargeable cell.	than rechargeable cells but they are much more expensive.

# **Physics Knowledge Organiser Half Term 5 and 6**

#	Questions	Answer
1	How can a glass block and a ray box be used to investigate refraction.	Shine a ray of light through a glass block and draw the ray of light entering and leaving the block. Draw around the glass block and then remove it. Join the lines together and draw a normal line at 90 degrees to the surface. Use a protractor to measure the angle of incidence and the angle of refraction. Repeat at different angles to observe the pattern.
2	State what the law of reflection states	The angle of incidence is equal to the angle of reflection.
3	List the stages involved in the lifecycle of our star the sun.	Nebula, protostar, main sequence star, red giant, white dwarf, black dwarf
4	List the stages involved in the lifecycle of a giant star much bigger than our sun.	Nebula, protostar, main sequence star, red supergiant, supernova, neutron star or black dwarf.
5	Explain why giant stars undergo a supernova when smaller stars don't	There is more pressure from the collapsing star causing the explosion.
6	What is red shift?	Red shift is when light from distant galaxies is shifted towards the red end of the spectrum and "stretched" as the galaxies move further away from us.
7	How does red shift provide evidence of red shift?	The furthest galaxies are moving away the fastest suggesting that they originated at the same point.
8	Why do scientific theories often change over time?	More evidence is gathered so models and theories can be developed and changed based on the new data.
9	Explain the difference between specular and diffuse reflection.	Specular reflection, which occurs with smooth surfaces like mirrors, causes light rays to reflect at the same angle as they hit the surface. Diffuse reflection, which occurs with rougher surfaces, scatters light rays in different directions.
10	Explain why it may be dangerous for bicycle reflectors to use specular reflection.	potentially causing a crash.
11	Describe how ultrasound is different from sound.	Ultrasounds have a frequency greater than 20 kHz, which is beyond the frequency limit of sounds that humans are able to hear.
12	Describe what type of wave a p wave is.	P waves are longitudinal waves that travel through solids and liquids at a relatively fast speed.
	Describe what type of wave an s wave is.  Explain why the paths of p and s waves are curved as they move towards and away from the Earth's core.	S waves are transverse waves that travel through solids only at a slower speed.  The p and s waves are refracted.
	Describe what the principal focus of a lens is.	Parallel light rays that enter the lens converge . They come together at a point called the principal focus
16	Explain how you would change the shape of a convex lens to reduce the focal length  Explain, using the idea of refraction, why light diverges	Make the lens bigger / fatter so light is refracted more.  Light diverges going through a concave lens because
17	after passing through a concave lens.	they bend away from the lens's axis  A real image is an image that can be projected onto a screen. Rays of light actually pass through the image. A virtual image cannot be projected onto a screen. It
18	Explain the difference between a real and a virtual image.  Identify the colour of light that is reflected by a black	appears to come from behind the lens and can only be seen by looking through the lens.
19	object.	None, black objects absorb all light that shines on them

		The 'colour' of an object is the wavelengths of light that
		it reflects. For example, a red object will reflect only red
20	Explain how the colour of an object is determined.	wavelength light and will absorb all other colours.
		<del>                                     </del>
21	Suggest what happens when light hits a grey object.	Grey reflects some and absorbs some of all colours
	Explain how a red filter works to ensure the light is all	Red filters absorb all light other than red wavelength
22	red.	light which they reflect.
		Volume and pressure are inversely proportional. As the
		volume increases, the pressure decreases and vice
		versa. This is because a larger volume means there are
		less frequent collisions between the particles and the
	Explain the relationship between volume and pressure	wall of the container meaning the pressure is
23	in gases.	decreased.
		Doing work on a gas means transferring energy to the
24	Describe what is meant by 'doing work' on a gas.	gas.
		Background radiation is the energy that is present all
25	Define what background radiation is.	around us at all times at safe levels.
		Radioactive decay is the breakdown of a radioactive
		nuclei releasing alpha or beta particles and EM waves
	State the difference between radioactive decay and	(gamma). Nuclear fission is the splitting of a large
26	nuclear fission.	atomic nucleus into smaller nuclei.
	Explain how a radioactive tracer could be used to check	The tracer would show up on a scan and allow the
27	for a blockage in a blood vessel.	doctors to observe if there is a blockage present.
		Nuclear fusion is when two small, light nuclei join
28	Explain what nuclear fusion is.	together to make one heavy nucleus.
	Why are nuclear fusion power stations not yet in	Humans have not yet managed to obtain high enough
29	operation?	temperatures to carry out fusion over a long time period.
		In a nuclear reactor, a neutron is absorbed into a
		nucleus (typically uranium-235). This causes the
		nucleus to become uranium-236, which is violently
		unstable.
		The entire nucleus splits into two large fragments called
		'daughter nuclei'. In addition to the 'daughter' products,
		two or three neutrons also explode out of the fission
		reaction and these can collide with other uranium nuclei
		to cause further fission reactions. This is known as a
	Explain how nuclear fission can result in a chain	chain reaction.
30	reaction.	

# **WEEK 1 Half Term 5**

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#### **WEEK 1 Half Term 5**

Hormones called auxins control plant growth.

A student investigated plant growth responses in roots.

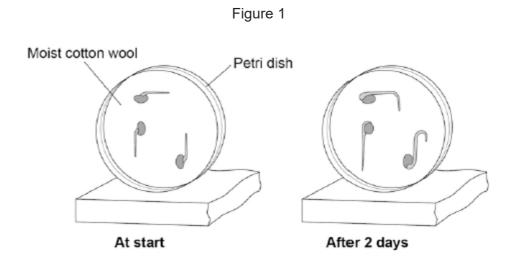
This is the method used.

- 1. Grow three bean seeds until their roots are 1 cm long.
- 2. Attach the three bean seeds to moist cotton wool in a Petri dish.

Each bean seed root should point in a different direction.

3. Fix the Petri dish vertically for 2 days in the dark.

Figure 1 shows the results.



(a) Describe the direction of growth of the bean roots after 2 days.

Give one reason for this growth response.

Direction of root growth _		
Reason		

(b) The student then noticed the shoots growing from the seeds.

He then:

- 1. put a light above the Petri dish but did not move the seeds
- 2. allowed the seeds to grow for 2 more days.

Predict the direction of growth of the bean shoots after 2 days.

(2)

Direction of root growth _	
Reason	

(2)

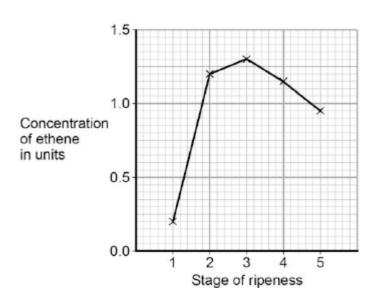
(c) Ethene is a plant hormone.

Ethene causes fruit to ripen.

Scientists measured the concentration of ethene found in fruit at different stages of ripeness.

Figure 2 shows the results.

Figure 2



At which stage of ripeness is there most ethene?

Tick one box.

Stage 1

Stage 2

Stage 3

Stage 4

Stage 5

# **WEEK 2 Half Term 5**

Fill the page with retrieval practice answers (cover the questions on your knowledge organiser and try to write them down). Mark and correct in green.		

# **WEEK 2 Half Term 5**

Potash alum is a chemical compound.

The formula of potash alum is  $KAI(SO_4)_2$ 

	should include the result of the test.
Test	
Res	ılt
(b) cond	Name one instrumental method that could identify the Group 1 metal ion and show the entration of the ion in a solution of potash alum.
lent i	dentifies the other metal ion in potash alum.
- امريا	
ıuael	nt tests a solution of potash alum by adding sodium hydroxide solution until a change i
	nt tests a solution of potash alum by adding sodium hydroxide solution until a change i Give the result of this test.
(c)	
(c)	Give the result of this test.
(c)  (d) Wha	Give the result of this test.  This test gives the same result for several metal ions.
(c)  (d)  What	Give the result of this test.  This test gives the same result for several metal ions.  t additional step is needed so that the other metal ion in potash alum can be identified
(c) (d) What	Give the result of this test.  This test gives the same result for several metal ions.  t additional step is needed so that the other metal ion in potash alum can be identified the result of this additional step.

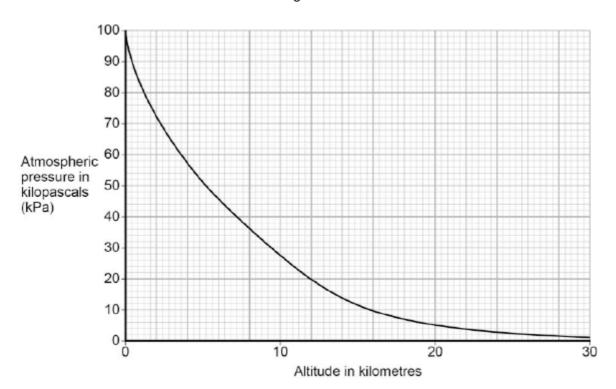
# **WEEK 3 Half Term 5**

Fill the page with retrieval practice answers (cover the questions on your knowledge organiser and try to write them down). Mark and correct in green.		

#### **WEEK 3 Half Term 5**

Figure 1 shows how atmospheric pressure varies with altitude.

Figure 1



(a)	Explain why atmospheric pressure decreases with increasing altitude.

(3)

(b) When flying, the pressure inside the cabin of an aircraft is kept at 70 kPa.

The aircraft window has an area of 810  $\mbox{cm}^2$ .

Use data from Figure 1 to calculate the resultant force acting on an aircraft window when the aircraft is flying at an altitude of 12 km.

(5)

# **WEEK 4 Half Term 5**

Fill the page with retrieval practice answers (cover the questions on your knowledge organiser and try to write them down). Mark and correct in green.		

# **WEEK 4 Half Term 5**

X-rays and ultrasound can both be used for scanning internal organs.

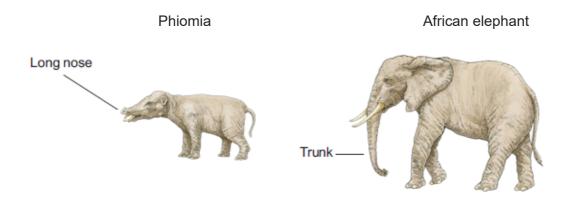
(a) babies.	Ultrasound is used to scan unborn babies but X-rays are not used to scan	unborn
Explain \	why.	
		(3)
(b) different	The behaviour of ultrasound waves when they meet a boundary between materials is used to produce an image.	łwo
Describe	e how.	
		(2)

# **WEEK 5 Half Term 5**

Fill the page with retrieval practice answers (cover the questions on your knowledge organiser and try to write them down). Mark and correct in green.		

#### **WEEK 5 Half Term 5**

Phiomia lived about 35 million years ago.



© Dorling Kindersley via Thinkstock

\_(2)

Both *Phiomia* and the African elephant reach up into trees to get leaves.

In the 1800s, Darwin and Lamarck had different theories about how the long nose of *Phiomia* evolved into the trunk of the African elephant.

	(ii) Lamarck's theory is different from Darwin's theory.	
	Use Lamarck's theory to explain how the elephant's trunk evolved.	

Give two reasons why.
1
2

theory or Darwin's theory was the right one.

In the 1800s, many scientists could not decide whether Lamarck's

(b)

(i)

# **WEEK 6 Half Term 5**

Fill the page with retrieval practice answers (cover the questions on your knowledge organiser and cry to write them down). Mark and correct in green.				

#### **WEEK 6 Half Term 5**

This question is about chemical reactions and electricity.

(a)	Electrolysis and chemical cells both involve chemical reactions and electricity.						
Ехр	Explain the difference between the processes in electrolysis and in a chemical cell.						

(b) A teacher demonstrates the electrolysis of molten lead bromide.

Bromine is produced at the positive electrode.

Complete the half equation for the production of bromine.

You should balance the half equation.

$$Br^- \rightarrow +$$

(2)

(2)

(c) Two aqueous salt solutions are electrolysed using inert electrodes.

Complete the table below to show the product at each electrode.

Salt solution	Product at positive electrode	Product at negative electrode
Copper nitrate		copper
Potassium iodide		

(3)

# HALF TERM 6

# **WEEK 1 Half Term 6**

Fill the page with retrieval practice answers (cover the questions on your knowledge organiser and cry to write them down). Mark and correct in green.						
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#### **WEEK 1 Half Term 6**

Conditions inside the body must be kept constant.

(a) Urea must be removed from the body.

(i)	Name the organ which makes urea.	

(1)

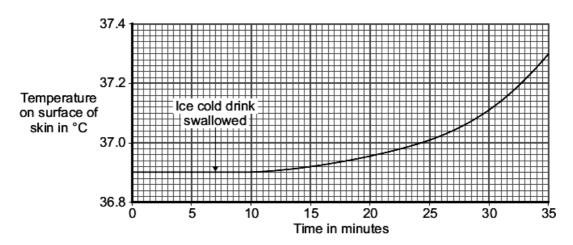
(ii) Which organ removes urea from the body?

(1)

(iii) What is urea made from?

(1)

A man sat in a room where the temperature was maintained at 40 °C. The temperature on the surface of his skin was monitored for 35 minutes. He swallowed an ice cold drink at the time indicated on the graph.



(b) The sweat glands contribute to the change in the temperature on the surface of the skin shown on the graph.

Explain how.			

(i) How do the blood vessels in the skin change when the core body temper falls?	ature -
(ii) How does this change in the blood vessels explain the change in the skir temperature shown on the graph?	- (1
	- - (1
	(Total 7 marks

The blood vessels near the surface of the skin also contribute to the changes in

(c)

skin temperature shown on the graph.

# **WEEK 2 Half Term 6**

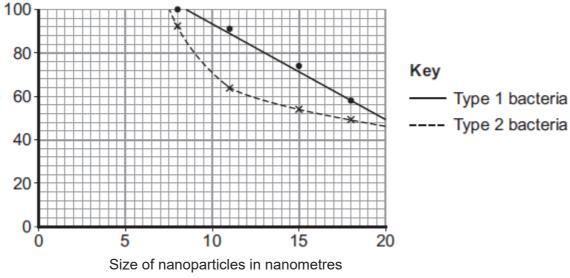
Fill the page with retrieval practice answers (cover the questions on your knowledge organiser and cry to write them down). Mark and correct in green.				

#### **WEEK 2 Half Term 6**

Magnesium oxide nanoparticles can kill bacteria.

The figure below shows the percentage of bacteria killed by different sized nanoparticles.

Percentage (%) of bacteria killed



(a) (i) Give two conclusions that can be made from the figure above.

(2)

(1)

(ii) Points are plotted for only some sizes of nanoparticles.

Would collecting and plotting data for more sizes of nanoparticles improve the conclusions?

Give a reason for your answer.

atoms to pro	duce magnesium	n oxide.		

# **WEEK 3 Half Term 6**

Fill the page with retrieval practice answers (cover the questions on your knowledge organiser and cry to write them down). Mark and correct in green.						
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#### WEEK 3 Half Term 6

The early Universe contained only the lightest element.

(a)	Use the correct answer from the	he box to complete the sentence.	
	hydrogen	iron	uranium
The	early Universe contained only _		
(b)	Use the correct answer from the	he box to complete the sentence.	
	main sequence star	protostar	supernova
The	heaviest elements are formed o	only in a	·
(c)	Use the correct answer from the	he box to complete the sentence.	
	red giant	red super giant	white dwarf
Only	y a star much bigger than the Su	ın can become a	·
(d) Des	The Universe now contains a learning a learning tribe how this happened.	large variety of different elements.	

(4)

(Total 7 marks)

# **WEEK 4 Half Term 6**

Fill the page with retrieval practice answers (cover the questions on your knowledge organiser and try to write them down). Mark and correct in green.				

#### **WEEK 4 Half Term 6**

A man hurt his head in an accident.

Doctors found that he could not remember anything that had happened on the day of the accident.

(a)	(i)	Name the par	rt of the brain	concerned	with memory.	
(ii) Na damage		method the do	octors could u	ise to find ou	it how much th	ne brain was
touched	different	e worried that areas of his s them each tim	skin with a sha	arp point.	injured his spi p point.	ne.
(i) Ex		w the informati	ion about the	sharp point	touching the s	kin reaches th

(1)

(1)

# **WEEK 5 Half Term 6**

Fill the page with retrieval practice answers (cover the questions on your knowledge organiser and try to write them down). Mark and correct in green.				

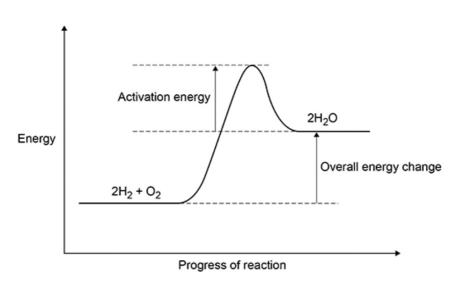
#### **WEEK 5 Half Term 6**

The reaction between hydrogen and oxygen releases energy.

(a) A student drew a reaction profile for the reaction between hydrogen and oxygen.

Figure 1 shows the student's reaction profile.

Figure 1



The student made two errors when drawing the reaction profile.

Describe the two errors.

1 _			
2 _			

(b) electri	The reaction between hydrogen and oxygen in a hydrogen fuel cell is used to p city.	roduce
Hydro	gen fuel cells and rechargeable cells are used to power some cars.	
Give to	wo advantages of using hydrogen fuel cells instead of using rechargeable cells cars.	to
1		
2		
(c) l fuel ce	Reactions occur at the positive electrode and at the negative electrode in a hyd	
Write	a half equation for one of these reactions.	

# **WEEK 6 Half Term 6**

<b>Fill the page</b> with retrieval practice answers (cover the questions on your knowledge organiser and try to write them down). Mark and correct in green.				
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# **WEEK 6 Half Term 6**

(a)	Give one other man-made source of background radiation.
ar po	ower stations use the energy released by nuclear fission to generate electricity.
(b)	Give the name of one nuclear fuel.
(-)	Nivelega fizzione velega e a cura vene
(c)	Nuclear fission releases energy.
Des	cribe the process of nuclear fission inside a nuclear reactor.
(d) nucl	A new type of power station is being developed that will generate electricity using lear fusion.
Ехр	lain how the process of nuclear fusion leads to the release of energy.

(e) Nuclear fusion power stations will produce radioactive waste. This waste will much shorter half-life than the radioactive waste from a nuclear fission power station.	
Explain the advantage of the radioactive waste having a shorter half-life.	
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	(2
	(Total 10 marks



Develop your character

