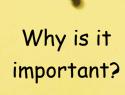


Year 10 Science Term 2 Homework Booklet

Name:	
Teacher:	
Class:	

Homework	Pages	Due
B10 – Homeostasis	3-4	
B11 – Hormonal Control	5-8	
C6 – Electrolysis	9-10	
P3 – Energy Resources	11-12	
B13 – Reproduction	13-16	
C7 – Energy Changes	17-18	

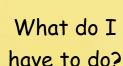
Introduction



Learning at home is very important; it will help you become a more confident learner by developing your key skills within the subject.

In Science the purpose of learning at home is to:

- Help you to find time and develop your understanding of science in the world
- Help you to build confidence in your knowledge and skills.
- Help you to apply the topics covered in lessons to work outside of lessons



Every week you will be expected to complete a section of your homework booklet.

Tasks will vary depending on the skill you are working on, however, each week will contain either:

- · A section of the knowledge organiser
- Practice questions

You will have time in lesson to peer mark one another's work and your teacher will check that you have completed the work to a good standard.



If you are unsure with what to do, or need a hand please see Mr Zulfiqar who will be happy to help

Useful resources include:

- · Asking your class teacher
- · Asking an adult at home to help
- · The CGP revision booklet
- GCSE Bitesize
- Youtube

Science Homework	B10 - Homeostasis	Science Homework	B10 - Homeostasis
1 - What is Hom	neostasis?		ons the body needs to imal conditions.
	Fulwesd academy		Fulw sad
Science Homework	B10 - Homeostasis	Science Homework	B10 - Homeostasis
3 - What is the central nervol	us system made up of?	4 - What does the cent	ral nervous system do?
	Full sacademy		Fulw sademy
Science Homework	B10 - Homeostasis	Science Homework	B10 - Homeostasis
5 - What pathway does a ner the reflex a stimulus	arc?	6 - What is the purp	ose of the reflex arc.
	Fulw sad academy		Fulword academy
Science Homework	B10 - Homeostasis	Science Homework	B10 - Homeostasis
7 - Why are reflex action:	s extremely rapid?	8 - What is the ruler dro	op test used to measure?
	Fulwesd academy		Fulwesd

Science Homework	B10 - Homeostasis	Science Homework	B10 - Homeostasis
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Science Homework	B10 - Homeostasis	Science Homework	B10 - Homeostasis
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Science Homework	B10 - Homeostasis	Science Homework	B10 - Homeostasis
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	academy		academy

Science Homework	B11 - Hormonal Control	Science Homework	B11 - Hormonal Control
9 - What is	s a hormone?		monitors blood glucose entration?
	Fulw sad academy		Fulw sademy
Science Homework	B11 - Hormonal Control	Science Homework	B11 - Hormonal Control
	se level returned to normal a sugary food?	=	ose level returned to normal lrops too low?
	Fulwesd academy		Full X academ
Science Homework	B11 - Hormonal Control	Science Homework	B11 - Hormonal Control
13 - What is t	type 1 diabetes?	14 - What is	type 2 diabetes?
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Science Homework	B11 - Hormonal Control	Science Homework	B11 - Hormonal Contro
15 - How is type	1 diabetes treated?	16 - How is type	e 2 diabetes treated?
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Science Homework	B11 - Hormonal Control	Science Homework	B11 - Hormonal Control
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Science Homework	B11 - Hormonal Control	Science Homework	B11 - Hormonal Control
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	academy		academy
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	academy		Full sad academy

Science Homework	B11 - Hormonal Control	Science Homework	B11 - Hormonal Control
	ne responsible for sperm on in males.	18 - What is the role of	f FSH in the menstrual cycle?
	Full state of the		Full sad academy
Science Homework	B11 - Hormonal Control	Science Homework	B11 - Hormonal Control
	pestrogen in the menstrual vale?	20 - What is the role o	f LH in the menstrual cycle?
	Full academy		Fulwesd academy
Science Homework	B11 - Hormonal Control	Science Homework	B11 - Hormonal Control
	e used in the contraceptive bill?		of hormonal methods of raception.
	Full state of the		Full sad academy
Science Homework	B11 - Hormonal Control	Science Homework	B11 - Hormonal Control
	non-hormonal methods of aception.	24 - What are	e the stages of IVF?
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Science Homework	B11 - Hormonal Control	Science Homework	B11 - Hormonal Control
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Science Homework	B11 - Hormonal Control	Science Homework	B11 - Hormonal Control
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Science Homework	C6 - Electrolysis	Science Homework	C6 - Electrolys
65 - What is elec	ctrolysis?	66 - Why does lead brom for electrolys	
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Science Homework	C6 - Electrolysis	Science Homework	C6 - Electrolys
67 - Why is cryolite added i aluminium o		68 - What is the half electrode in the electro	
	Fulw of d		Fulw scader
Science Homework	C6 - Electrolysis	Science Homework	C6 - Electrolys
69 - What is the half eq electrode in the electroly oxide?		70 - What are the p electrolysis of sodiun	
	Fulw sd academy		Full of the control o
Science Homework	C6 - Electrolysis	Science Homework	C6 - Electrolys
71 - In the electrolysis of solution why does hydro positive elect	ogen form at the	72 - Why does the p constantly need replacir aluminiun	ng in the electrolysis of
	Fulw sd academy		Fullwork acaden

Science Homework	C6 - Electrolysis	Science Homework	C6 - Electrolysis
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Science Homework	C6 - Electrolysis	Science Homework	C6 - Electrolysis
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Science Homework	C6 - Electrolysis	Science Homework	C6 - Electrolysis
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Science Homework Energy

9 - A 3kg object is held at a height of 2m. Calculate the gravitational potential energy of the object.

g = 9.8N/kg

Science Homework Energy

10 - What is the efficiency of a 800W motor that transfers 600W of kinetic energy?





Science Homework Energy

11 - Name 4 non-renewable energy resources.

Science Homework Energy

12 - Give three examples of renewable energy resources.





Science Homework Energy

13 - What are the advantages of renewable energy resources?

Science Homework

Energy

14 - What are the disadvantages of renewable energy resources?





Science Homework Energy

15 - What are the advantages and

Science Homework

Energy

disadvantages of nuclear energy?

16 - What are the advantages and disadvantages of bio-fuels?





Science Homework	Energy	Science Homework	Energy
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Science Homework	Energy	Science Homework	Energy
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Science Homework	Energy	Science Homework	Energy
	Fulwesd academy		Fulwesd

Science Homework	B13 - Reproduction	Science Homework	B13 - Reproduction
1 - What are	gametes?	2 - What is f	fertilisation?
	Fulwesd academy		Full scademy
Science Homework	B13 - Reproduction	Science Homework	B13 - Reproduction
3 - What is sexua	l reproduction?	4 - What is asexu	ual reproduction?
	Fulwesd academy		Fulw sademy
Science Homework	B13 - Reproduction	Science Homework	B13 - Reproduction
5 - By what process are	e gametes produced?	meio	visions are involved in osis? urpose of this?
	Full State of the		Full scademy
Science Homework	B13 - Reproduction	Science Homework	B13 - Reproduction
7 - How many chromos human bo		8 - Describe the	structure of DNA
	Fulw sad		Full scademy

Science Homework	B13 - Reproduction	Science Homework	B13 - Reproduction
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Science Homework	B13 - Reproduction	Science Homework	B13 - Reproduction
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Science Homework	B13 - Reproduction	Science Homework	B13 - Reproduction
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Science Homework	B13 - Reproduction	Science Homework	B13 - Reproduction
8 -		7 -	
	Fulwesd		Fulword academy
	academy		academy

Science Homework	D12 Depreduction	Science Homework	P12 Payraduation
Science Homework	B13 - Reproduction	Science Homework	B13 - Reproduction
9 - Why is it important to understand the human genome?		10 - What is a gene?	
	Fulw sad academy		Full sacademy
Science Homework	B13 - Reproduction	Science Homework	B13 - Reproduction
11 - What is an allele?		12 - What does dominant mean?	
	Fulw sad academy		Fulw sd academy
Science Homework	B13 - Reproduction	Science Homework	B13 - Reproduction
13 - What does recessive mean?		14 - What does homozygous mean?	
	Full sacademy		Fulw sad academy
Science Homework	B13 - Reproduction	Science Homework	B13 - Reproduction
15 - What does heterozygous mean?		16 - What type of allele is polydactyl caused by?	
	Full sad		Full sad academy

Science Homework	B13 - Reproduction	Science Homework	B13 - Reproduction
10 -		0	
10 -		9 -	
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	academy		academy
Science Homework	B13 - Reproduction	Science Homework	B13 - Reproduction
12 -		11 -	
	Fulwesd		Fulwesd
	academy		academy
Science Homework	B13 - Reproduction	Science Homework	B13 - Reproduction
14 -		13 -	
	Fulword academy		Fulwesd
	academy		academy
Science Homework	B13 - Reproduction	Science Homework	B13 - Reproduction
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16 -		15 -	
	(1) X		
	Full sad academy		Full sad academy

Science Homework C7 - Energy Changes

Science Homework C7 - Energy Changes

73 - What is an exothermic reaction?

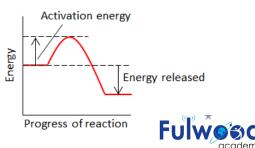
74 - What is an endothermic reaction?





Science Homework C7 - Energy Changes

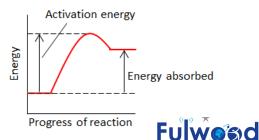
75 - Is this reaction profile for an exothermic or endothermic reaction?



Science Homework

C7 - Energy Changes

76 - Is this reaction profile for an exothermic or endothermic reaction?



Science Homework

C7 - Energy Changes

Science Homework

C7 - Energy Changes

77 - What is activation energy?

78 - Outline a method to measure the energy change of a chemical reaction.





Science Homework

C7 - Energy Changes

Science Homework C7 - Energy Changes

79 – How does a catalyst affect activation energy?

80 - Work out the energy change in this reaction

 $H_2 + Cl_2 \rightarrow 2HCl$

H-H is 436kJ/mol, Cl-Cl is 242kJ/mol, H-Cl is 431kJ/mol.





Science Homework	C7 - Energy Changes	Science Homework	C7 - Energy Changes
	Full scademy		Full academy
Science Homework	C7 - Energy Changes	Science Homework	C7 - Energy Changes
	Full sacademy		Full Sacademy
Science Homework	C7 - Energy Changes	Science Homework	C7 - Energy Changes
	Fulwesd academy		Fulword academy
Science Homework	C7 - Energy Changes	Science Homework	C7 - Energy Changes
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