



Year 11 Science

Term 2

Homework

Booklet

Name: _____

Teacher : _____

Class: _____

<i>Homework</i>	<i>Pages</i>	<i>Due</i>
<i>C13 – Earths Atmosphere</i>	<i>3-8</i>	
<i>C14 – Earths Resources</i>	<i>9-14</i>	
<i>P9+P10 – Forces and Motion</i>	<i>15-18</i>	
<i>P15 – Electromagnetism</i>	<i>19-22</i>	

Introduction

Why is it important?

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

What do I have to do?

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.

What if I get stuck?

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

C13 - The Earth's Atmosphere

57 - What is the % of oxygen in the atmosphere?



Science Homework

C13 - The Earth's Atmosphere

58 - What is the % of carbon dioxide in the atmosphere?



Science Homework

C13 - The Earth's Atmosphere

59 - What is the % of nitrogen in the atmosphere?



Science Homework

C13 - The Earth's Atmosphere

60 - What was the main gas in the Earth's early atmosphere?



Science Homework

C13 - The Earth's Atmosphere

61 - Which two planets have similar atmospheres to the atmosphere of the Early Earth?



Science Homework

C13 - The Earth's Atmosphere

62 - How did the oceans form?



Science Homework

C13 - The Earth's Atmosphere

63 - What happened to the carbon dioxide that was present in the early atmosphere?



Science Homework

C13 - The Earth's Atmosphere

64 - How did the amount of oxygen in the atmosphere increase?



Science Homework

C13 - The Earths Atmosphere



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C13 - The Earths Atmosphere



Science Homework C13 - The Earths Atmosphere

65 - How long ago did algae start producing oxygen?



Science Homework C13 - The Earths Atmosphere

66 - What are the greenhouse gases?



Science Homework C13 - The Earths Atmosphere

67 - What human activities increase the amount of CO₂ in the atmosphere?



Science Homework C13 - The Earths Atmosphere

68 - What human activities increase the amount of methane in the atmosphere?



Science Homework C13 - The Earths Atmosphere

69 - Why is it hard to fully understand the effect of human activities on the global climate?



Science Homework C13 - The Earths Atmosphere

70 - What is a carbon footprint?



Science Homework C13 - The Earths Atmosphere

71 - What causes sulphur dioxide to be released into the atmosphere?



Science Homework C13 - The Earths Atmosphere

72 - What is caused by the release of sulphur dioxide into the atmosphere?



Science Homework

C13 - The Earths Atmosphere



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73 - Why are nitrogen oxides found in the exhausted fumes of cars?



Science Homework

C13 - The Earth's Atmosphere

74 - What is caused by the release of nitrogen oxides into the atmosphere?



Science Homework

C13 - The Earth's Atmosphere

75 - What are the effects of acid rain?



Science Homework

C13 - The Earth's Atmosphere

76 - Why is carbon monoxide dangerous?



Science Homework

C13 - The Earth's Atmosphere

77 - What pollutants do incomplete combustion of fossil fuels release?



Science Homework

C13 - The Earth's Atmosphere

78 - What are the problems of particulates (eg. released by diesel cars)?



Science Homework

C13 - The Earth's Atmosphere

79 - What are the consequences of global warming?



Science Homework

C13 - The Earth's Atmosphere

80 - Why does deforestation increase the amount of carbon dioxide in the atmosphere?



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C13 - The Earths Atmosphere



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Science Homework

C13 - The Earths Atmosphere



<p>Science Homework C14 - The Earths Resources</p> <p>81 - What four things do humans use the Earth's resources for?</p> <p></p>	<p>Science Homework C14 - The Earths Resources</p> <p>82 - What do we supplement natural resources with?</p> <p></p>
<p>Science Homework C14 - The Earths Resources</p> <p>83 - What does sustainable development mean?</p> <p></p>	<p>Science Homework C14 - The Earths Resources</p> <p>84 - What is potable water?</p> <p></p>
<p>Science Homework C14 - The Earths Resources</p> <p>85 - What should potable (drinking) water have low levels of?</p> <p></p>	<p>Science Homework C14 - The Earths Resources</p> <p>86 - Where does most potable water come from in the UK?</p> <p></p>
<p>Science Homework C14 - The Earths Resources</p> <p>87 - What three ways can water be sterilised?</p> <p></p>	<p>Science Homework C14 - The Earths Resources</p> <p>88 - What two ways can salty water be desalinated (salt removed)?</p> <p></p>

Science Homework

C14 - The Earths Resources



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89 - What are the three stages in producing potable water from fresh water?



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C14 - The Earths Resources

90 - What are the four stages of waste water treatment?



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C14 - The Earths Resources

91 - Why is it becoming more important to extract copper from low grade ores?



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C14 - The Earths Resources

92 - What are the two processes called to extract copper from low grade ores?



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C14 - The Earths Resources

93 - Explain the process of phytomining.



Science Homework

C14 - The Earths Resources

94 - Explain the process of bioleaching.



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C14 - The Earths Resources

95 - Why are life cycle assessments carried out?



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C14 - The Earths Resources

96 - What are the four stages of a life cycle assessment?



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C14 - The Earths Resources



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97 - What are the problems with life cycle assessments?



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C14 - The Earths Resources

98 - What is the main problem of a selective life cycle assessment?



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C14 - The Earths Resources

99 - What are the advantages to recycling?



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C14 - The Earths Resources

100 - How are metals recycled?



Science Homework

C14 - The Earths Resources

101 - How can glass be recycled?



Science Homework

C14 - The Earths Resources

102 - What synthetic product has cotton been replaced with (in clothes)



Science Homework

C14 - The Earths Resources

103 - What synthetic product has wood been replaced with (in window frames for example)



Science Homework

C14 - The Earths Resources

104 - Name some sources of waste water.



Science Homework

C14 - The Earths Resources



Science Homework

C14 - The Earths Resources



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Science Homework

C14 - The Earths Resources



Science Homework

P9 + P10

25 - What is the typical speed a person cycles at?



Science Homework

P9 + P10

26 - What is the speed of sound in air?



Science Homework

P9 + P10

27 - What is the stopping distance of a vehicle?



Science Homework

P9 + P10

28 - What factors may affect a driver's thinking distance?



Science Homework

P9 + P10

29 - What factors may affect a vehicles braking distance



Science Homework

P9 + P10

30 - What is momentum?



Science Homework

P9 + P10

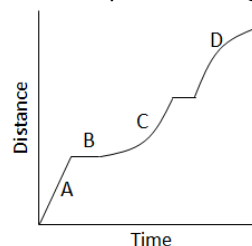
31 - What does conservation of momentum mean?



Science Homework

P9 + P10

32 - What do these parts of the graph show?



Science Homework

P9 + P10



Science Homework

P9 + P10



Science Homework

P9 + P10



Science Homework

P9 + P10



Science Homework

P9 + P10



Science Homework

P9 + P10



Science Homework

P9 + P10



Science Homework

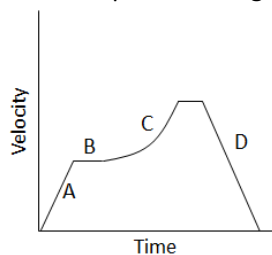
P9 + P10



Science Homework

P9 + P10

33 - What do these parts of the graph show?



Science Homework

P9 + P10

34 - Why will a skydiver eventually reach terminal velocity?

Science Homework

P9 + P10

35 - What is Newton's First Law?

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P9 + P10

36 - What is Newton's Second Law?

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P9 + P10

37 - What is Newton's Third Law?

Science Homework

P9 + P10

38 - What happens to the kinetic energy of a vehicle as it comes to a stop?

Science Homework

P9 + P10

39 - What happens to the thermal energy store of a vehicle's brakes as they are applied to stop a vehicle?

Science Homework

P9 + P10

40 - What happens to the elastic potential store of a ball when it is squashed?

Science Homework

P9 + P10



Science Homework

P9 + P10



Science Homework

P9 + P10



Science Homework

P9 + P10



Science Homework

P9 + P10



Science Homework

P9 + P10



Science Homework

P9 + P10



Science Homework

P9 + P10



Science Homework

P15 - Electromagnetism

65 - Where is the strongest part of a bar magnet?



Science Homework

P15 - Electromagnetism

66 - What happens if two like poles of a magnet are brought close to each other?



Science Homework

P15 - Electromagnetism

67 - What happens if opposite poles of a magnet are brought close to each other?



Science Homework

P15 - Electromagnetism

68 - What is an induced magnet?



Science Homework

P15 - Electromagnetism

69 - What direction do the field lines go between two magnets?



Science Homework

P15 - Electromagnetism

70 - What two ways can you find the magnetic field lines of a magnet.



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P15 - Electromagnetism

71 - What is produced when a current flows through a wire?



Science Homework

P15 - Electromagnetism

72 - When a current flows through a wire a magnetic field is produced.
What does the strength of this magnetic field depend upon?



Science Homework

P15 - Electromagnetism

66 -



Science Homework

P15 - Electromagnetism

65 -



Science Homework

P15 - Electromagnetism

68 -



Science Homework

P15 - Electromagnetism

67 -



Science Homework

P15 - Electromagnetism

70 -



Science Homework

P15 - Electromagnetism

69 -



Science Homework

P15 - Electromagnetism

72 -



Science Homework

P15 - Electromagnetism

71 -



Science Homework

P15 - Electromagnetism

73 - What is a solenoid?



Science Homework

P15 - Electromagnetism

74 - How can a solenoid be turned into an electromagnet?



Science Homework

P15 - Electromagnetism

75 - What is the motor effect?



Science Homework

P15 - Electromagnetism

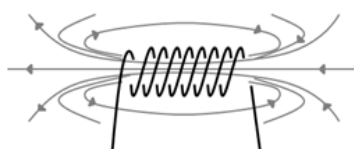
76 - In Fleming's left hand rule what do the thumb, first finger and second finger represent?



Science Homework

P15 - Electromagnetism

77 - What does this show?



Science Homework

P15 - Electromagnetism

78 - Briefly, how does an electric motor work?



Science Homework

P15 - Electromagnetism

79 - How is a plotting compass used to draw the magnetic field lines around a magnet?



Science Homework

P15 - Electromagnetism

80 - How can the direction of a motor be reversed?



Science Homework

P15 - Electromagnetism

74 -



Science Homework

P15 - Electromagnetism

73 -



Science Homework

P15 - Electromagnetism

76 -



Science Homework

P15 - Electromagnetism

75 -



Science Homework

P15 - Electromagnetism

78 -



Science Homework

P15 - Electromagnetism

77 -



Science Homework

P15 - Electromagnetism

80 -



Science Homework

P15 - Electromagnetism

79 -

