



Cambridge Primary Stage 5	
Topic	Objective <i>Pupils should be taught to:</i>
<b>Ideas and evidence</b>	5Ep2 Use observation and measurement to test predictions and make links.
<b>Plan investigative work</b>	5Ep3 Make predictions of what will happen based on scientific knowledge and understanding, and suggest and communicate how to test these.
<b>Plan investigative work</b>	5Ep4 Use knowledge and understanding to plan how to carry out a fair test.
<b>Plan investigative work</b>	5Ep5 Collect sufficient evidence to test an idea.
<b>Plan investigative work</b>	5Ep6 Identify factors that need to be taken into account in different contexts.
<b>Obtain and present evidence</b>	5Eo1 Make relevant observations.
<b>Obtain and present evidence</b>	5Eo2 Measure volume, temperature, time, length and force.
<b>Obtain and present evidence</b>	5Eo3 Discuss the need for repeated observations and measurements.
<b>Obtain and present evidence</b>	5Eo4 Present results in bar charts and line graphs.
<b>Consider evidence and approach</b>	5Eo5 Decide whether results support predictions.
<b>Consider evidence and approach</b>	5Eo6 Begin to evaluate repeated results.

Macmillan Science Level 5			
Macmillan Science Unit	Macmillan Science Lesson	Examples <i>(Level, Unit, Lesson, Page, Activity number)</i>	Notes
	Covered. See Examples.	L5, U1, Lesson 4, p20, a1; L5, U1, Lesson 5, p23, a1	
	Covered. See Examples.	L5, U1, Lesson 8, p31, a1; L5, U2, Lesson 4, p46, a1; L5, U4, Lesson 7, p110, a2	
	Covered. See Examples.	L5, U1, Lesson 6, p26, a1	
	Covered. See Examples.	L5, U3, Lesson 8, p74, a1	
	Covered. See Examples.	L5, U2, Lesson 4, p48, a4; L5, U4, Lesson 1, p96, a3	
	Covered. See Examples.	L5, U1, Lesson 4, p20, a1; L5, U1, Lesson 6, p27, a2; L5, U1, Lesson 8, p31, a1; L5, U2, Lesson 1, p41, a2; L5, U4, Lesson 9, p113, a1	
	Covered. See Examples.	L5, U2, Lesson 3, p45, a2; L5, U4, Lesson 4, p102, a1; L5, U4, Lesson 5, p105, a1	
	Not covered		
	Covered. See Examples.	L5, U1, Lesson 11, p37, a1; L5, U4, Lesson 13, p122, a1; L5, U4, Lesson 16, p132, a2; L5, U4, Lesson 23, p151, a3	
	Covered. See Examples.	L5, U2, Lesson 8, p55, a1	
	Covered. See Examples.	L5, U4, Lesson 9, p114, a2; L5, U4, Lesson 10, p116, a1	



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<b>Consider evidence and approach</b>	5Eo7 Recognise and make predictions from patterns in data and suggest explanations using scientific knowledge and understanding.
<b>Consider evidence and approach</b>	5Eo8 Interpret data and think about whether it is sufficient to draw conclusions.
<b>Plants</b>	5Bp1 Know that plants need energy from light for growth.
<b>Plants</b>	5Bp2 Know that plants reproduce.
<b>Plants</b>	5Bp3 Observe how seeds can be dispersed in a variety of ways.
<b>Plants</b>	5Bp4 Investigate how seeds need water and warmth for germination, but not light.
<b>Plants</b>	5Bp5 Know that insects pollinate some flowers.
<b>Plants</b>	5Bp6 Observe that plants produce flowers which have male and female organs; seeds are formed when pollen from the male organ fertilises the ovum (female).
<b>Plants</b>	5Bp7 Recognise that flowering plants have a life cycle including pollination, fertilisation, seed production, seed dispersal and germination.
<b>States of matter</b>	5Cs1 Know that evaporation occurs when a liquid turns into a gas.

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	Covered. See Examples.	L5, U3, Lesson 3, p65, a2; L5, U3, Lesson 7, p73, a3	
	Covered. See Examples.	L5, U4, Lesson 10, p117, a1	
<b>Unit 1</b> Living things	<b>Lesson 6</b> Producers and consumers	L5, U1, Lesson 6, p26, a1	
	Not covered		This is covered in Level 4, Unit 1, Lessons 11-12.
	Not covered		This is covered in Level 4, Unit 1, Lessons 11-13.
	Not covered		This is covered in Level 3, Unit 4.
	Not covered		This is covered in Level 3, Unit 5.
	Not covered		This is covered in Level 4, Unit 1, Lessons 11-13.
	Not covered		This is covered in Level 4, Unit 1, Lessons 11-14.
<b>Unit 3</b> Our Earth	<b>Lesson 2</b> The water cycle	L5, U2, Lesson 2, p63, a2	Note that this is also covered in Level 4, Unit 2.



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<b>States of matter</b>	5Cs2 Know that condensation occurs when a gas turns into a liquid and that it is the reverse of evaporation.
<b>States of matter</b>	5Cs3 Know that air contains water vapour and when this meets a cold surface it may condense.
<b>States of matter</b>	5Cs4 Know that the boiling point of water is 100°C and the melting point of ice is 0°C.
<b>States of matter</b>	5Cs5 Know that when a liquid evaporates from a solution the solid is left behind.
<b>Light</b>	5PI1 Observe that shadows are formed when light travelling from a source is blocked.
<b>Light</b>	5PI2 Investigate how the size of a shadow is affected by the position of the object.
<b>Light</b>	5PI3 Observe that shadows change in length and position throughout the day.
<b>Light</b>	5PI4 Know that light intensity can be measured.
<b>Light</b>	5PI5 Explore how opaque materials do not let light through and transparent materials let a lot of light through.
<b>Light</b>	5PI6 Know that we see light sources because light from the source enters our eyes.

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<b>Unit 3</b> Our Earth	<b>Lesson 2</b> The water cycle	L5, U2, Lesson 2, p63, a2	Note that this is also covered in Level 4, Unit 3.
<b>Unit 3</b> Our Earth	<b>Lesson 2</b> The water cycle	L5, U2, Lesson 2, p63, a2	
Not covered			
Not covered			
<b>Unit 4</b> Forces and energy	<b>Lesson 13</b> Making shadows	L5, U4, Lesson 13, p122, a1	
<b>Unit 4</b> Forces and energy	<b>Lesson 13</b> Making shadows	L5, U4, Lesson 13, p122, a1	
Not covered			
Not covered			
<b>Unit 4</b> Forces and energy	<b>Lesson 12</b> Light and materials	L5, U4, Lesson 12, p121, a2	
<b>Unit 4</b> Forces and energy	<b>Lesson 11</b> Light and seeing	L5, U4, Lesson 11, p118, a1	



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<b>Light</b>	5PI7 Know that beams/rays of light can be reflected by surfaces including mirrors, and when reflected light enters our eyes we see the object.
<b>Light</b>	5PI8 Explore why a beam of light changes direction when it is reflected from a surface.
<b>The Earth and beyond</b>	5Pb1 Explore, through modelling, that the sun does not move; its apparent movement is caused by the Earth spinning on its axis.
<b>The Earth and beyond</b>	5Pb2 Know that the Earth spins on its axis once in every 24 hours.
<b>The Earth and beyond</b>	5Pb3 Know that the Earth takes a year to orbit the sun, spinning as it goes.
<b>The Earth and beyond</b>	5Pb4 Research the lives and discoveries of scientists who explored the solar system and stars.

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<b>Unit 4</b> Forces and energy	<b>Lesson 14</b> Reflection	L5, U4, Lesson 14, p125, a1; L5, U4, Lesson 14, p126, a2	
<b>Unit 4</b> Forces and energy	<b>Lesson 14</b> Reflection <b>Lesson 15</b> Refraction	L5, U4, Lesson 14, p125, a1; L5, U4, Lesson 14, p126, a2; L5, U4, Lesson 15, p128, a1	
<b>Unit 5</b> Astronomy	<b>Lesson 1</b> Day, night and the seasons	L5, U5, Lesson 1, p158, a1	
<b>Unit 5</b> Astronomy	<b>Lesson 1</b> Day, night and the seasons	L5, U5, Lesson 1, p158, a1	
Not covered			This is covered in Level 3, Unit 16.
Not covered			