

Disciplinary Knowledge and Skills Progression – Science

Science > Key Stage 1

Lion Learning Pathways

Working Scientifically Planner (KS1)

Unit	Year and term	WS1	WS2	WS3	WS4	WS5	WS6	
Plants and their Growth	Year 1 (Au1)		Week 2: Lesson 2 Week 6: Lesson 1		Week 4: Lesson 2	Week 1: Lesson 2 Week 5: Lesson 1	Week 3: Lesson 2	WS1 Asking simple questions and recognising that they can be answered in different ways.
Animals and their Needs	Year 1 (Au2)	Week 3: Lesson 2	Week 2: Lesson 2		Week 1: Lesson 2 Week 4: Lesson 2	Week 5: Lesson 2		WS2 Able to observe closely, using simple equipment.
Human Body: Senses	Year 1 (Sp1)	Week 1: Lesson 2	Week 2: Lesson 2 Week 4: Lesson 2			Week 5: Lesson 2	Week 3: Lesson 2 Week 6: Lesson 2	WS3 Able to perform simple tests.
Introduction to Forces: Magnetism	Year 1 (Sp2)			Week 1: Lesson 2 Week 2: Lesson 2 Week 3: Lesson 2			Week 4: Lesson 2 Week 6: Lesson 1	WS4 Identifying and classifying different things.
Seasons and Weather	Year 1 (Su1)		Week 2: Lesson 2	Week 5: Lesson 2		Week 1: Lesson 2	Week 3: Lesson 2 Week 4: Lesson 2	WS5 Able to use observations and ideas to suggest answers to questions.
Taking Care of the Earth	Year 1 (Su2)	Week 2: Lesson 1 Week 3: Lesson 2				Week 5: Lesson 1 Week 5: Lesson 2	Week 3: Lesson 1	WS6 Able to gather and record data to help answer questions.
Animals Including Humans	Year 2 (Au1)	Week 1: Lesson 2		Week 6: Lesson 2	Week 5: Lesson 1	Week 2: Lesson 2 Week 4: Lesson 2	Week 3: Lesson 2	
Living Things and their Habitats	Year 2 (Au2)				Week 1: Lesson 2 Week 2: Lesson 2	Week 5: Lesson 1 Week 6: Lesson 1	Week 4: Lesson 1 Week 4: Lesson 2	
Everyday Materials	Year 2 (Sp1)	Week 6: Lesson 1		Week 2: Lesson 2	Week 1: Lesson 2	Week 4: Lesson 2	Week 3: Lesson 2	
Plants and their Growth	Year 2 (Sp2)		Week 1: Lesson 2	Week 3: Lesson 1	Week 6: Lesson 1	Week 4: Lesson 1 Week 5: Lesson 1		
Introduction to Electricity	Year 2 (Su1)			Week 2: Lesson 2 Week 4: Lesson 2		Week 3: Lesson 2 Week 5: Lesson 2	Week 1: Lesson 1	
Introduction to Astronomy	Year 2 (Su2)	Week 3: Lesson 2	Week 2: Lesson 2 Week 5: Lesson 1		Week 1: Lesson 2			
Total number of lessons		7	9	9	9	16	13	

Working Scientifically Planner (Years 3/4)

Unit	Year and term	WS1	WS2	WS3	WS4	WS5	WS6	WS7	WS8	WS9
Animals Including Humans	Year 3 (Au1)		Wk 1: L2 Wk 5: L2	Wk 3: L2	Wk 2: L2			Wk 5: L2	Wk 4: L2	
Light	Year 3 (Au2)			Wk 4: L2	Wk 1: L2		Wk 3: L2 Wk 5: L2		Wk 2: L1 Wk 5: L1	
Geology: Rocks and Soils	Year 3 (Sp1)				Wk 2: L1 Wk 6: L1	Wk 4: L2		Wk 2: L2 Wk 3: L2 Wk 5: L2		
Forces and Magnets	Year 3 (Sp2)				Wk 3: L2		Wk 2: L2 Wk 4: L2 Wk 5: L2	Wk 1: L2		
Plants and their Growth	Year 3 (Su1)	Wk 6: L1			Wk 2: L1			Wk 4: L1 Wk 5: L1	Wk 3: L1	
Plants and Pollination	Year 3 (Su2)			Wk 3: L1 Wk 5: L2			Wk 4: L1	Wk 1: L2		
Electricity	Year 4 (Au1)	Wk 4: L2	Wk 5: L2	Wk 1: L2		Wk 3: L2		Wk 6: L2		Wk 2: L2
States of Matter	Year 4 (Au2)			Wk 1: L2 Wk 2: L2				Wk 4: L2	Wk 3: L2	
Sound	Year 4 (Sp1)		Wk 5: L2	Wk 1: L2 Wk 2: L2			Wk 5: L1		Wk 3: L2	Wk 6: L1
Living Things and their Habitats	Year 4 (Sp2)		Wk 5: L2	Wk 4: L1		Wk 1: L2 Wk 3: L1				
Animals Including Humans	Year 4 (Su1)		Wk 4: L1	Wk 1: L2	Wk 2: L2			Wk 5: L2		
Living Things and their Habitats: Ecology	Year 4 (Su2)			Wk 4: L2	Wk 1: L2		Wk 2: L2		Wk 3: L2 Wk 5: L2	
Total number of lessons		2	6	12	8	4	8	11	8	2

WS1
Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.

WS2
Identifying differences, similarities or changes related to simple scientific ideas and processes.

WS3
Using straightforward scientific evidence to answer questions or to support their findings.

WS4
Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.

WS5
Gathering, recording, classifying and presenting data in a variety of ways to help answer questions.

WS6
Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.

WS7
Setting up simple practical enquiries, comparative and fair tests.

WS8
Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment including thermometers and data loggers.

WS9
Asking relevant questions and using different types of scientific enquiries to answer them.

Working Scientifically Planner (Years 5 / 6)

Unit	Year and term	WS1	WS2	WS3	WS4	WS5	WS6
Earth and Space	Year 5 (Au1)	Week 3: Lesson 2			Week 2: Lesson 2		Week 2: Lesson 1 Week 4: Lesson 2
Forces	Year 5 (Au2)		Week 3: Lesson 2 Week 5: Lesson 2	Week 2: Lesson 2		Week 4: Lesson 2 Week 6: Lesson 2	Week 1: Lesson 2
Properties and Changes of Materials	Year 5 (Sp1)		Week 1: Lesson 2 Week 2: Lesson 2		Week 5: Lesson 2	Week 3: Lesson 2	Week 4: Lesson 2 Week 6: Lesson 2
Living Things and their Environments	Year 5 (Sp2)	Week 4: Lesson 1		Week 5: Lesson 2		Week 1: Lesson 2	Week 2: Lesson 2
Human Biology	Year 5 (Su1)	Week 4: lesson 2 Week 5: Lesson 2		Week 2: Lesson 2	Week 1: Lesson 2 Week 3: Lesson 2		
Revision Unit	Year 5 (Su2)		Week 5: Lesson 1 Week 5: Lesson 2			Week 1: Lesson 2	Week 3: Lesson 1 Week 4: Lesson 1
Light	Year 6 (Au1)	Week 6: Lesson 2		Week 1: Lesson 2 Week 3: Lesson 2			Week 2: Lesson 2 Week 4: Lesson 2 Week 5: Lesson 2
Electricity	Year 6 (Au2)	Week 1: Lesson 2	Week 3: Lesson 2	Week 5: Lesson 2	Week 2: Lesson 2	Week 6: Lesson 2	Week 4: Lesson 2
Classification of Living Things	Year 6 (Sp1)	Week 6: Lesson 1	Week 1: Lesson 2		Week 3: Lesson 2 Week 4: Lesson 2	Week 2: Lesson 2	
Evolution and Inheritance	Year 6 (Sp2)	Week 1: Lesson 2 Week 5: Lesson 2	Week 2: Lesson 2				Week 4: Lesson 2
The Human Body and Circulation	Year 6 (Su1)	Week 5: Lesson 1		Week 3: Lesson 1			Week 1: Lesson 2 Week 4: Lesson 1
Transition Unit	Year 6 (Su2)	Week 2: Lesson 2	Week 1: Lesson 2	Week 4: lesson 2		Week 3: Lesson 2	Week 5: Lesson 2
Total number of lessons		11	10	8	7	8	16

WS1

Identifying scientific evidence that has been used to support or refute ideas or arguments.

WS2

Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.

WS3

Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.

WS4

Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.

WS5

Using test results to make predictions to set up further comparative and fair tests.

WS6

Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.