KS1 Cycle A

Cycle A	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Unit (Substantive knowledge)	**Living things and their habitats** **Plants year 1**		**Animals including humans – (year 2)**		**Plants – year 1** **Revisit habitats from autumn 1**	**Continue plants + Everyday Materials**
Topics taught throughout the year	Plants - I know how to identify and name a variety of common wild and garden plants, including deciduous and evergreen trees I know how to identify and describe the basic structure of a variety of common flowering plants, including trees Seasonal Change – Children should learn about the different seasons, day length and weather around the world throughout the year.					
Working Scientifically (disciplinary Knowledge)	**Working scientifically** During years 1 and 2, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: ● asking simple questions and recognising that they can be answered in different ways ● observing closely, using simple equipment ● performing simple tests ● identifying and classifying ● using their observations and ideas to suggest answers to questions ● gathering and recording data to help in answering questions					

KS1 Cycle B

Cycle B	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Animals including humans - year 1	**Complete Animals including humans – year 1** **Seasonal change** - The seasons	**Uses of everyday materials**	**Seasonal change** - Day length - Weather around the world **Plants – year 2** *Including year 1 content - Identify and describe the basic structure of a variety of common flowering plants. including trees.*	**Continue plants**	**Seasonal change** - Weather review
Topics taught throughout the year	**Seasonal change – taught across the year to allow for observations of different seasons.**					
Working scientifically (disciplinary knowledge)	**Working scientifically** During years 1 and 2, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: ● asking simple questions and recognising that they can be answered in different ways ● observing closely, using simple equipment ● performing simple tests ● identifying and classifying ● using their observations and ideas to suggest answers to questions ● gathering and recording data to help in answering questions					

LKS2 Cycle A

Cycle A	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Living things and their habitats (recap seasonal changes Y1+2)	Electricity	States of matter (recap materials from year 1+2) Revisit habitats from autumn 1		Sound (recap states of matter and uses of materials)	Forces and magnets (recap materials) Revisit habitats from autumn 1
Working Scientifically (disciplinary Knowledge)	**Working Scientifically** During years 3 and 4, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: ● asking relevant questions and using different types of scientific enquiries to answer them ● setting up simple practical enquiries, comparative and fair tests ● making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers ● gathering, recording, classifying and presenting data in a variety of ways to help in answering questions ● recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables ● reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions ● using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions ● identifying differences, similarities or changes related to simple scientific ideas and processes ● using straightforward scientific evidence to answer questions or to support their findings.					

LKS2 Cycle B

Cycle B	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Plants year 3		Rocks year 3 Link to previous plants learning when possible	Light year 3 Link to previous plants learning when possible	Animals including humans year 3 (recap y1+2 animals including humans)	Animals including humans year 4
Working Scientifically (disciplinary Knowledge)	**Working Scientifically** During years 3 and 4, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: ● asking relevant questions and using different types of scientific enquiries to answer them ● setting up simple practical enquiries, comparative and fair tests ● making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers ● gathering, recording, classifying and presenting data in a variety of ways to help in answering questions ● recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables ● reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions ● using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions ● identifying differences, similarities or changes related to simple scientific ideas and processes ● using straightforward scientific evidence to answer questions or to support their findings.					

UKS2 Cycle A

Cycle A	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Living things and their habitats year 5 (recap Y1,2,3,4 LTATH)	Living things and their habitats year 6 (refer back to year 5 content)	Earth and Space (recap Y3/4 light)	Light (recap Y3/4 light) SATS prep	Evolution and inheritance (Recap ks1 living things and their habitats and Y3 fossils and rocks)	Forces (Recap -Earth and space and y3/4 forces and magnets)
Working Scientifically (disciplinary Knowledge)	**Working scientifically** During years 5 and 6, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: ● planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary ● taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate ● recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs ● using test results to make predictions to set up further comparative and fair tests ● reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations ● identifying scientific evidence that has been used to support or refute ideas or arguments					

UKS2 Cycle B

Cycle B	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Changes of materials (Recap LKS2 states of matter) • Burning • Acid and bicarbonate of soda • Dissolving mixtures and changes of state • Separation by filtration and sieving • Separation by evaporation	Properties of materials (Recap KS1 everyday materials and uses of everyday materials) • Hardness • Transparency and magnetism • Thermal and electrical conductivity	Electricity (Recap year ¾ electricity)		Animals including humans year 5 (recap ks1 + Lks2 animals including humans) *Animals, including humans This topic contains important information about puberty which should be delivered in Year 5. This aspect should be taught to the Year 5 pupils as part of Physical Health and Mental Wellbeing, outside of the science two-year cycle for the phase. This should take place before pupils are taught the Year 5 Animals, including humans topic.	Animals including humans year 6
Working Scientifically (disciplinary Knowledge)	**Working scientifically** During years 5 and 6, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: ● planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary ● taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate ● recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs ● using test results to make predictions to set up further comparative and fair tests ● reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations ● identifying scientific evidence that has been used to support or refute ideas or arguments					
