

## Greenfields Academy (Primary) - Long Term Planning – SCIENCE FRAMEWORK

### Academic Year Overview 2020/21 – Primary 3

Term	Autumn		Spring		Summer	
	1	2	3	4	5	6
	Scientists and Inventors		Properties of Materials		Living Things and their Habitats	
	<p>Skills to be developed across all topics:</p> <ul style="list-style-type: none"> <li>planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary</li> <li>taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate</li> <li>recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs</li> <li>using test results to make predictions to set up further comparative and fair tests</li> <li>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</li> <li>identifying scientific evidence that has been used to support or refute ideas or arguments</li> </ul>					
Weekly Sequence	<b>KEY:</b> <b>C = Coverage</b> <b>N = New Learning</b> <b>R = Recall of prior learning</b> <b>A = Assessment</b> <b>SC – Taught during COVID19 school closure</b>					
<b>1</b>	Staff Training	C - Scientists and Inventors N – To record and interpret data on the effects of penicillin using a scatter graph.	C – Properties of Materials N – To compare materials according to their properties.	C – Properties of Materials N – To investigate materials that dissolve. N – To list practical using for materials that dissolve.	C – Living Things & their Habitats N - To give reasons for classifying animals based on their similarities and differences.	C – Living Things & their Habitats N – I can explain and describe how some plants reproduce.
<b>2</b>	Staff Training	C - Scientists and Inventors R – To record and interpret data on the effects of penicillin using a scatter graph.	C – Properties of Materials N – To compare, describe and sort materials according to their properties.	C – Properties of Materials N – To use different processes to separate substances.	C – Living Things & their Habitats R - To give reasons for classifying animals based on their similarities and differences. N - To describe how things are classified into groups.	C – Living Things & their Habitats R – I can explain and describe how some plants reproduce.

3	C - Scientists and Inventors N - To report on my findings from an enquiry inspired by Stephen Hawking's theories about black holes	SC - Scientists and Inventors N - To describe the importance of the fossils found by Mary Leakey.	C - Properties of Materials N - To know the difference between thermal insulators and conductors. N - To plan a scientific enquiry.	C - Properties of Materials A - To use different processes to separate substances. R - To record my findings.	C - Living Things & their Habitats R - To describe how things are classified into groups. N - To identify the characteristics of different types of animals.	C - Living Things & their Habitats N - To describe and investigate helpful and harmful microorganisms
4	C - Scientists and Inventors N - To use Libbie Hyman's work to classify invertebrates.	SC - Scientists and Inventors R - To describe the importance of the fossils found by Mary Leakey.	C - Properties of Materials N - To investigate thermal conductors and insulators. R - To record my findings.	C - Properties of Materials N - To describe and observe some chemical changes.	C - Living Things & their Habitats N - To describe the life cycle of different animals.	C - Living Things & their Habitats N - To identify the characteristics of different types of microorganisms.
5	C - Scientists and Inventors R - To use Libbie Hyman's work to classify invertebrates.	C - Scientists and Inventors N - explain how Steve Jobs used electronics to design computers.	C - Properties of Materials N - To investigate electrical conductors and insulators.	C - Properties of Materials N - To identify and explain some irreversible chemical changes.	C - Living Things & their Habitats N - To compare the life cycles of amphibians and insects.	C - Living Things & their Habitats A - To plan, carry out and evaluate a scientific experiment (growing mould on bread).
6	C - Scientists and Inventors N - To identify the evidence scientists used to prove the structure of DNA. N - To research Rosalind Franklin involvement in studying DNA.	C - Scientists and Inventors R - explain how Steve Jobs used electronics to design computers.	C - Properties of Materials N - To investigate electrical conductors and insulators. R - To record my findings.		C - Living Things & their Habitats N - To compare the life cycles of plants, mammals, amphibians, insects, and birds.	Enrichment and Transitions
7	C - Scientists and Inventors R - To identify the evidence scientists used to prove the structure of DNA.	Enrichment				

