

Curriculum Map
Science Objectives

	Objectives
FINDING AND USING INFORMATION	FS2 – Explore the natural world around them, making observations and drawing pictures of animals and plants.
	FS2 – Know some similarities and differences between the natural world around them and contrasting environments.
	FS2 – Understand some important processes and changes in the natural world around them, including seasons and changing states of matter
	Year 1 – They recognise texts can give information
	Year 2 - They use simple texts, with help to find information.
	Year 3 - They use simple texts to find information
	Year 4 - They recognise why it is important to collect data to answer questions.
	Year 5 - They select information from sources provided for them.
QUESTIONING	Year 6 - Pupils describe how experimental evidence and creative thinking have been combined to provide a scientific explanation
	Year 1 - Pupils respond to suggestions of how to find things out
	Year 2- With help, pupils make their own suggestions about how to answer questions.
	Year 3 – Make own suggestions about how to collect data to help answer questions.
	Year 4 - Pupils respond and evaluate suggestions putting forward their own ideas about how to find an answer to a question.
	Year 5 - Pupils recognise that scientific ideas are based on evidence, and can make suggestions how things can be gathered
FAIR TEST	Year 6 - When they try to answer a scientific question, they identify an appropriate approach.
	Year 1 – Understand the meaning of fair
	Year 2 – Under direction identify how their test is fair
	Year 3 – Can explain how a test can be fair/ unfair
	Year 4 – Can suggest ways to make a test fairer
	Year 5 - In their own investigative work, they decide on an appropriate approach (for example using a fair test) to answer a question.
PREDICTION	Year 6 - Where appropriate, they describe, or show in the way they perform their task, how to vary one factor while keeping the others the same
	Year 1 – Say what they think will happen
	Year 2 - They say whether what happened was what they expected.
	Year 3 – With help, where appropriate, they make predictions.
	Year 4 – Independently, where appropriate, they make predictions.
	Year 5 - Where appropriate, they make predictions based on their scientific knowledge and understanding.
OBSERVATIONS	Year 6 – Justify predictions made based on their scientific knowledge and understanding.
	FS 2 Can talk about some of the things they have observed such as plants, animals, natural and found objects.
	Year 1 - Describe or respond appropriately to simple features of objects, living things and events they observe.
	Year 2 - They make observations related to their task.
	Year 3 - They observe and compare objects, living things and events they observe.
	Year 4 - They make relevant observations.
	Year 5- They make a series of observations and measurements.
Year 6 - They begin to repeat observations and to offer simple explanations for any differences they encounter.	
USE OF EQUIPMENT AND MEASURING	Year 1 – Under direction use simple equipment provided
	Year 2 – Independently use simple equipment provided
	Year 3 – Choose from a range of simple equipment.
	Year 3 - They measure quantities such as length or mass.
	Year 4 – Explain choices from a range of simple equipment
	Year 4 – Measure with increased accuracy quantities such as length or mass
	Year 5 - They select suitable equipment to use.
	Year 5 - They make a series of measurements that are adequate for the task
	Year 6 - They select apparatus for a range of tasks and plan to use it effectively.
	Year 6 - They make a series of observations, comparisons or measurements with precision appropriate to the task.
	Year 6 - They begin to repeat observations and measurements and to offer simple explanations for any differences they encounter.
COMMUNICATING FINDINGS	Year 1 - They communicate their findings in discussion and simple drawings
	Year 2 – Communicate their findings through drawings and simple charts
	Year 3 - They describe their observations using scientific vocabulary and record them using simple tables when appropriate.
	Year 4 - They record their observations in a variety of ways and communicate findings using scientific language
	Year 5- They record their observations, comparisons and measurements, using tables and bar charts.

	Year 5 - They begin to plot points to form simple graphs.
	Year 6 - They communicate their conclusions with appropriate scientific language.
	Year 6 - They record observations and measurements systematically and, where appropriate, present data as line graphs.
DRAWING CONCLUSIONS	Year 4 - They provide explanations for observations and for simple patterns in recorded measurements.
	Year 5 - They use these graphs to point out and interpret patterns in their data.
	Year 6 - They draw conclusions that are consistent with the evidence and begin to relate these to scientific knowledge and understanding.
EVALUATING THEIR WORK	Year 4 - They suggest improvements for their work.
	Year 5 - They suggest improvements in their work, giving reasons.
	Year 6 - They make practical suggestions about how their working methods could be improved.