

The Tithe Farm Way:

Resilient pupils who have a life-long love of learning and are ready, respectful and safe in their choices.

Skills Progression: Working Scientifically

Working Scientifically				
Year group	Reception	KS1	LKS2	UKS2
Learning	<ul style="list-style-type: none"> • Make comments about what they have heard or seen. • Ask question. • Learn new vocabulary. • Talking to help work out problems. • Begin to articulate through well-formed sentences. 	<ul style="list-style-type: none"> • Ask simple questions. • Understanding that questions can be answered in different ways. • Observing using equipment. • Perform simple tests. • Identify and classify. • Answer questions through their observations. • Gathering and recording data. • Use learning through recording and performing tests to help answer questions. 	<ul style="list-style-type: none"> • Ask questions and use enquiries to answer them. • Perform and set up simple enquiries ensuring they are fair tests. • Use evidence to answer questions. • Identify similarities and difference between simple scientific ideas. • Record findings using scientific language. • Make observations, standard units and equipment. 	<ul style="list-style-type: none"> • Plan different types of enquiries (to ensure they can answer questions). • Taking measurements using equipment. • Record data and results using a range of ways to present this. • To make predictions and carry out fair tests. • Using scientific evidence to support their ideas. • Report their findings and explain it reliability (orally or written).
Key Vocab	Look closely, observe, watch, touch, feel, smell, listen, same, different, compare, ask questions, record, sort, grow	Observe, changes, patterns, grouping, sorting, compare, same, different, identify (name), measure, data, record results, drawing, picture, table, tally chart, present, pictogram, block chart, Venn diagram, ask questions, test, investigate, explore, equipment, resources, magnifying glass, hand lens, ruler, tape measure, metre stick, pipette, syringe, spoon, teaspoon, answer questions, interpret results, scientific enquiry, pattern seeking, comparative testing, observing over time, classifying, researching using secondary resources	Practical work, fair testing, relationships, accurate, thermometer, data logger, stopwatch, timer, estimate, data, diagram, identification key, chart, bar chart, prediction, similarity, difference, evidence, information, findings, criteria, values, properties, characteristics, conclusion, explanation, reason, evaluate, improve	Variables, independent variable, dependent variable, control variable, evidence, justify, argument, causal relationship, accuracy, precision, scatter graphs, bar graphs, line graphs, force meter