Little Thurrock Primary School

Whole School Curriculum Map – Science

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Make observations						
(The Natural World) Explore the natural world around them, making observations and drawing pictures of animals and plants Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter	Start to observe closely	Observe closely	Develop skills of systematic observation	Make systematic observations	Independently decide which observations to make	Independently decide which observations to make
Perform tests						
(Self Regulation) Set and work towards simple goals, being able to wait for what they want and control their	Perform simple tests with support	Perform simple tests	Set up simple practical enquiries Understand comparative and fair tests	Suggest, set up and carry out simple practical enquires Understand comparative and fair tests	Recognise and control variables where necessary	Recognise and control variables where necessary Explain which variables need to be controlled and why

Little Thurrock Primary School

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immediate impulses when appropriate; (The Natural World) Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.						
Ask questions						
(Listening, Attention and Understanding) Listen attentively and respond to what they hear with relevant questions, comments and actions when being read to Make comments about what they have heard and ask questions to clarify their understanding (Speaking) Offer explanations for why things might happen, making use of recently introduced vocabulary	Start to ask and suggest answers to simple scientific questions Use first-hand practical experiences to find answers	Ask and raise their own scientific questions Use first-hand practical experiences to find answers	Ask relevant scientific questions and suggest how to answer eg practical test vs secondary sources Develop different types of scientific enquiry	Generate and answer scientific questions using evidence Select most appropriate type of scientific enquiry	Use science experiences to plan different types of enquiry	Plan different types of scientific enquiry in order to answer questions Use science experiences to explore ideas and raise different types of question

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Gather Data						
	Begin to gather and record data simply using pictures and words	Gather and record data using diagrams, words and charts	Gather, record and present data in variety of ways eg drawings, labelled diagrams, charts Report on findings orally and in writing using scientific language	Gather, record, classify and present data in a wide variety of ways eg drawings, labelled diagrams, charts Report on findings orally and in writing using scientific language to answer questions	Record data/results of increasing complexity using diagrams, classification keys, tables, bar and line graphs Report and present findings from enquiries, examining causal relationships and reliability of results	Decide how to record data/results of increasing complexity using diagrams, classification keys, tables, scatter graphs, bar and line graphs Report and present findings from enquiries, examining causal relationships and reliability of results
Analyse Data						
	Start to discuss what they have found out	Discuss what they have found out	Use results to draw simple conclusions and make predictions Identify similarities, differences, changes related to scientific processes and ideas	Use results to draw simple conclusions, make predictions, suggest improvements and raise further questions Explain similarities, differences, changes related to scientific processes and ideas	Use test results to make predictions to set up further tests (comparative/fair) Identify scientific evidence that has been used to support/refute arguments	Use test results to make predictions to set up further tests (comparative/fair) and explain reasoning Interpret scientific evidence that has been used to support/refute arguments
Use equipment						
(The Natural World) Explore the natural world around them, making observations and drawing pictures of animals and plants	Begin to use simple equipment eg egg timers, hand lenses	Use simple equipment eg hand lenses, egg timers	Use range of equipment to measure accurately eg dataloggers, thermometers	Confidently use range of equipment to measure accurately eg dataloggers, thermometers	Take measurements using a range of scientific equipment with accuracy and precision	Take measurements using a range of scientific equipment with accuracy and precision, taking repeat readings where appropriate

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