Longton Primary School Science National Curriculum Coverage for each year group.

	Biology	Chemistry	Physics	Working Scientifically
Year 1	Plants. Identify classify and describe their basic function. Animals and Humans. Identify, classify and observe.	Materials. Identify, name, describe, classify, compare properties and changes.	Earth and Space. Observe seasonal changes.	• Ask simple questions. • Observe closely, using simple equipment. • Perform simple tests. • Identify and classify. • Use observations and ideas to suggest answers to questions. • Gather and record data to help in answering questions.
Year 2	Plants. Observe and describe growth. Habitats. Look at the sustainability of environments and at food chains Animals and Humans. Look at growth, basic needs, exercise, food and hygiene.	Materials. Look at the practical use of everyday materials.	Forces. Observe seasonal changes.	
Year 3	Plants • Look at the function of parts of flowering plants, requirements of growth, water transportation in plants, life cycles and seed dispersal. Animals and humans • Look at the muscle and skeletal system of humans and animals.	Rocks and Fossils Compare and group rocks and describe the formation of fossils	Light • Look at sources, seeing, reflections and shadows. Forces and Magnets. • Look at contact and distant forces, attraction and repulsion, comparing and grouping materials. • Look at pole attraction and repulsion.	• Ask relevant questions. • Set up simple, practical enquiries and comparative and fair tests. • Make accurate measurements using standard units, using a range of equipment, e.g. thermometers and data loggers. • Gather, record, classify and present data in a variety of ways to help in answering questions. • Record findings using simple scientific language, drawings, labelled diagrams, bar charts and tables. • Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. • Use results to draw simple conclusions and suggest improvements, new questions and predictions for setting up further tests. • Identify differences, similarities or changes related to simple, scientific ideas and processes. • Use straightforward, scientific evidence to answer questions or to support their findings.
Year 4	Animals and humans • Look at the digestive system in humans • Look at teeth. All Living Things • Identify and name plants and animals • Look at classification keys	States of Matter • Look at solids, liquids and gases, changes of state, evaporation, condensation and the water cycle.	Sound • Look at sources, vibration, volume and pitch. Electricity • Look at appliances, circuits, lamps, switches, insulators and conductors.	
Year 5	All Living Things • Look at the life cycle of animals and plants • Look at reproduction in plants and animals, and human growth and changes.	Materials • Examine the properties of materials using various tests. • Look at solubility and recovering dissolved substances. • Separate mixtures. • Examine changes to materials that create new materials that are usually not reversible.	Forces and Magnets • Look at contact and distant forces • Look at the effect of gravity and drag forces • Look at transference of forces in gears, pulleys, levers and springs. Earth and Space • Look at the movement of the Earth and the moon. • Explain day and night.	• Ask relevant questions. • Set up simple, practical enquiries and comparative and fair tests. • Make accurate measurements using standard units, using a range of equipment, e.g. thermometers and data loggers. • Gather, record, classify and present data in a variety of ways to help in answering questions. • Record findings using simple scientific language, drawings, labelled diagrams, bar charts and tables. • Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. • Use results to draw simple conclusions and suggest improvements, new questions and predictions for setting up further tests. • Identify differences, similarities or changes related to simple, scientific ideas and processes. • Use straightforward, scientific evidence to answer questions or to support their findings.
Year 6	Evolution and Inheritance • Look at resemblance of offspring • Look at changes in animals over time. • Look at adaptations to environments. • Look at differences in offspring. • Look at changes to the human skeleton over time. Animals and humans • Look at nutrition, transportation of water and nutrients in the body. All Living Things • Look at classification of plants, animals and micro-organisms • Look at the effect of diet and exercise and drugs.		Light • Explain how light appears to travel in straight lines and how this affects seeing and shadows. Electricity • Look at circuits, the effect of the voltage in cells and the resistance and conductivity of materials.	