Year 3 – Science
Knowledge, Skills and Understanding 2018/19

Working Scientifically
• I can ask questions and use different types of scientific enquiries to answer them. • I can set up simple practical enquiries, comparative and fair tests. • I can make observations and take measurements using standard units, using a range of equipment, including thermometers and data loggers. • I can gather, record, classify and present data in a variety of ways to help with answering questions. • I can record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables. • I can report on findings from enquiries, including spoken and written explanations, displays or presentations of results and conclusions. • I can use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions. • I can explain differences, similarities or changes related to simple scientific ideas and processes. • I can use straightforward scientific evidence to answer questions or to support my findings.
Animals Including Humans
• I can identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat. • I can explain why humans and some other animals have skeletons and muscles.
Forces and Magnets
• I can compare how things move on different surfaces. • I can see that some forces need contact between two objects but magnetic forces can act at a distance. • I can observe how magnets attract or repel each other and attract some materials and not others. • I can compare and group some materials on the basis of whether or not they are attracted to a magnet, and identify some magnetic materials. • I can describe magnets as having two poles. • I can predict whether two magnets will attract or repel each other, depending on which poles are facing.
Plants
• I can explain what different parts of flowering plants do. • I can explore the requirements of plants for life and growth and how they vary from plant to plant. • I can investigate the way in which water is transported within plants. • I can explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.
Light
• I can explain that I need light in order to see things and that dark is the absence of light. • I can show that light is reflected from surfaces. • I can explain that light from the sun can be dangerous and that there are ways to protect eyes. • I can show how shadows are formed when the light from a light source is blocked by a solid object. • I can show that there are patterns in the way that the size of shadows change.
Rocks
• I can examine and do practical experiments on various types of rocks in order to group them on the basis of their appearance and simple physical properties. • I can describe simply how fossils are formed when things that have lived are trapped within rock. • I can explain that soils are made from rocks and organic matter.