Great Moor Junior School
"Learning Together"
Respect, Kindness, Tolerance, Responsibility, Co-operation

Year 3 Science Skills Progression

Year 3 Expectations: Working Scientifically
• Use different ideas and suggest how to find something out
• Plan a fair test and explain why it was fair
• Set up simple practical enquiries, comparative and fair tests
• Explain why they need to collect information to answer a question
• Make systematic and careful observations and, where appropriate, take accurate measurements using standard units
• Record their observations in different ways, for example, labelled diagrams, charts etc.
• Explain what they have found out and use their measurements to say whether it helps to answer their question
• Use a range of equipment,(including a thermometer and data-logger)
Year 3 Exceeding Expectations:
• Record and present what they have found using scientific language, drawings, labelled diagrams, bar charts and tables
• Use their findings to draw a simple conclusion

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Year 3 Science Skills Progression

Year 3 Expectations: Life and Living Processes -Biology
• Identify and describe the functions of different parts of flowering plants,for example, roots, stem/trunk, leaves and flowers
• explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant
• Investigate the way in which water is transported within plants
• Explore the part that flowers play in the life cycle of flowering Plants, including pollination, seed formation and seed dispersal
• Identify that animals, including humans, need the right types and amount of nutrition
• Understand that that they cannot make their own food; they get nutrition from what they eat
• Identify that humans and some other animals have skeletons and muscles for support, protection and movement
Year 3 Exceeding Expectations:
• Explain how the muscular and skeletal systems work together to create movement
• Classify living things and non-living things by a number of characteristics that they have thought of
• Explain how certain living things depend on one another to survive
• Explore the role of flowers in the life cycle of flowering plants, including pollination, see formation and seed dispersal

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Year 3 Science Skills Progression

Year 3 Expectations: Physical Processes -Physics
• Recognise that they need light in order to see things and that dark is the absence of light
• Notice that light is reflected from surfaces
• Recognise that light from the sun can be dangerous and that there are ways to protect their eyes
• Recognise that shadows are formed when the light from a light source is blocked by a solid object
• Find patterns in the way that the size of shadows change
• Compare how things move on different surfaces
• Notice that some forces need contact between two objects, but magnetic forces can act at a distance
• Observe how magnets attract or repel each other and attract some materials and not others
• Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials
• Describe magnets as having two poles
• Predict whether two magnets will attract or repel each other, depending on which poles are facing
Year 3 Exceeding Expectations:
• Investigate the strengths of different magnets and find fair ways to compare them
• Explain why lights need to be brighter or dimmer according to need
• Explain why their shadow changes when the light source is moved closer or further from the object

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Year 3 Science Skills Progression

Year 3 Expectations: Rocks -Chemistry
• Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties
• Describe in simple terms how fossils are formed when things that have lived are trapped within rock
• Recognise that soils are made from rocks and organic matter

Year 3 Exceeding Expectations:
• Begin to relate the properties of rocks with their uses