

Working scientifically.

Across all year groups scientific knowledge and skills should be learned by working scientifically.

These are across the whole of KS2 – so the children in lower KS2 will be working towards these.

- 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.

Biology

Year 3

Plants

- Look at the function of parts of flowering plants, requirements of growth, water transportation in plants, life cycles and seed dispersal.

Chemistry

Year 3

Rocks and fossils.

- Compare and group rocks and describe the formation of fossils.

Physics

Year 3

Light

- Look at sources, seeing, reflections and shadows.
- Explain how light appears to travel in straight lines and how this affects seeing and shadows.

<ul style="list-style-type: none"> - Evolution and inheritance. <p><u>All living things.</u></p> <ul style="list-style-type: none"> - Identify and name plants and animals. 		<p><u>Forces and magnets</u></p> <ul style="list-style-type: none"> - Look at contact and distant forces, attraction and repulsion, comparing and grouping materials. - Look at poles, attraction and repulsions. - Look at the effect of gravity and drag forces. - Look at transference of forces in gears, pulleys, levers and springs. <p><u>Earth and space</u></p> <ul style="list-style-type: none"> - Observe seasonal changes. <p><u>Electricity</u></p> <ul style="list-style-type: none"> - Look at appliances and circuits.
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