‘Science on a page’

Planning and resources

- Children will be exposed to all requirements of the National Curriculum through the National Curriculum programmes of study.
- The school is part of the Ogden Trust Partnership which promotes physics in primary schools. Through the partnership, the school has brand-new resources for several topics– light and sound, electricity and forces. Teachers are encouraged to use these resources in continuous provision and outside of science lessons.
- In EYFS, children continually explore the world around them scientifically and are encouraged to learn through exploring. This is enhanced through continuous provision. Science is blocked to have specific topic time, however, opportunities to learn scientifically are continually given.

Teaching and learning

- Science is currently taught in blocks. In Key Stage 1, these lessons are taught as whole-class lessons and are enhanced within continuous provision where the children are encouraged to be more independent. In Key Stage 2, the lessons are taught whole class. In year 1 and 2, children are exposed to working scientifically, different scientific enquiries and practical experiments.
- Lessons are knowledge-based to grow foundational knowledge. Children are given several opportunities to learn through hands-on experiences, inquiry-based learning and observing teacher-led experiments.

The primary science curriculum focuses on three areas

- Developing scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- Ensuring children are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future
- Developing understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them

Assessment and feedback

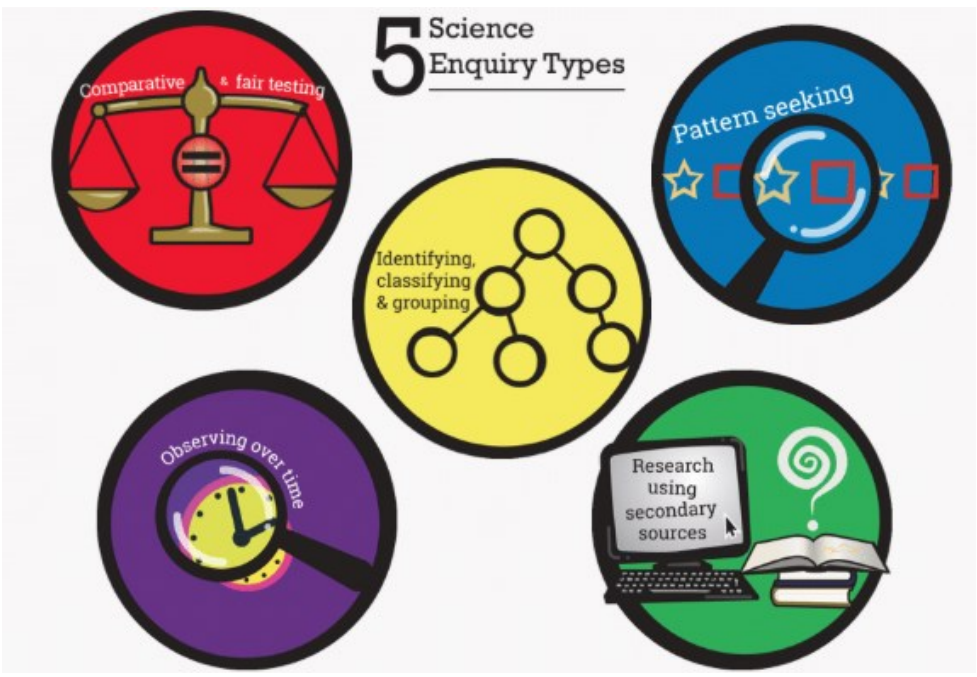
- Insight Tracking is used to assess children against our science objectives from KS1-KS2. In EYFS, children are assessed against the 17 Early Learning Goals.
- Feedback is given live during the lesson where children’s thinking can be stretched or challenged. They are given the time to unpick any misconceptions with the support of an adult or peers if appropriate.

Science Week

- Each year, we complete a project for science week as a school. This builds the sense of community at RMS and encourages curiosity, participation and the application of science in the real world. These challenges are set and based on each year’s theme.

Working scientifically

- Children are encouraged to work scientifically in each science lesson (not as a separate strand). In addition to this, children will use the 5 types of scientific enquiry to answer scientific questions:



Adaptations

(Disadvantaged, SEN, Looked-after, known to social care and other barriers)

- Effective Assessment for Learning enables staff to make adaptations within lessons to enable all children to access the curriculum.
- Digital resources are available to support children’s reading, e.g. SeeingAI.
- Staff carefully plan adaptations to stretch and challenge all children, including use of technology to overcome barriers.
- Dyslexia-friendly workbooks are available for students to use in place of yellow science books.

Vocabulary

- Teachers understand that the quality and variety of language that pupils hear and speak are key factors in developing their scientific vocabulary and articulating scientific concepts clearly and precisely.
- Vocabulary is displayed on working walls and other classroom displays.
- Teachers model high levels and a wide range of vocabulary. Using children's initial ideas. Showing how to use the correct terms and vocabulary.

Displays

Class ‘Learning Journey’ displays are used to display key vocabulary, learning and concepts.