

## Aims and ambitions

Our aim is for every pupil to develop a genuine curiosity about the world and the confidence to explore it through science. We want children to see themselves as young scientists—asking thoughtful questions, investigating ideas and using evidence to explain their thinking. Through engaging, practical experiences, pupils will build strong scientific knowledge alongside the skills to reason, problem-solve and communicate effectively. We aspire for all learners to leave KS2 with a lasting enthusiasm for science, an understanding of its importance in everyday life and the confidence to apply their learning to new and unfamiliar situations.

## Knowledge

Throughout the Key Stage children will develop their knowledge in:

- The uses and implications of science
- Scientific Vocabulary
- Observing and Recording
- Processes and Changes
- Scientific Methods

Where possible we will take a cross-curricular (STEM) approach to delivery of this knowledge.

## Planning and Teaching structure (Learning journey)

Science is taught in mixed register classes

Developing Experts is used as a spine to structure the progression and content of lessons and units are taught in a 2 year cycle.

Emphasis is placed on developing scientific enquiry skills alongside the knowledge acquisition of the theme.

## Science procedure

at

Ewanrigg Junior School



## Adaptive Teaching

We adapt our teaching to ensure all pupils can access and succeed in science. Lessons are carefully scaffolded with clear explanations, modelling and the use of visual supports and practical resources. Teachers use questioning and ongoing assessment to identify misconceptions and adjust learning in the moment. Activities may be adapted through support, challenge or alternative approaches so that all pupils can progress, while opportunities for discussion and hands-on learning help meet a range of learning needs.

## Assessment

Pre and post assessments are used to assess the children's scientific knowledge and understanding. Misconceptions highlighted from these quizzes are addressed. Science is monitored as part of the yearly monitoring cycle.

Insight is used to build an individual profile and assess children against the national curriculum.

Formative assessment is a continuous and integral element of every science lesson and informs any adaptations and next steps in learning.

## Skills

Pupils will develop key scientific skills including asking questions, making predictions and carrying out fair investigations. They will learn to observe, measure and record results, as well as analyse data and draw conclusions. Children will also build confidence in explaining their ideas using scientific vocabulary, while developing important skills such as problem-solving, critical thinking, independence and teamwork.