

## Curriculum Intent: What do we want our children to learn?

At Grange Infant School our science is enquiry based and promotes knowledge and skills learning through hands on practical experiences. It encourages all children to become independent learners, able to use skills to follow adult-led enquiry as well as developing a curiosity to initiate their own investigations. Quality stories and information texts help introduce topics and are one source used to discover scientific knowledge. Children are encouraged to think critically, extend their knowledge and think how their actions might impact on the world around us.

## Impact:

The teaching and implementation of the Science curriculum at Grange Infant School is based on the national curriculum with strong links to wider topics to ensure a well-structured approach. It is important that our children not only develop their subject knowledge but also the wider skills needed to be a scientist, this is done by ensuring they are able to explore their own enquiries..

Our on-going formative assessment takes place as part of our regular weekly science learning and from talking with children. We use practical activities, including TAPS (Teacher Assessment in Primary Science) midway through the term to give children a chance to show their progress in science ideas, knowledge and skills. This then informs future planning, giving children the chance for further support or to extend their own learning.

## Science in a Nutshell



## Curriculum Implementation: How do we do it at Grange Infant School?

- We base our learning around practical activities, both indoors and in our outside environments.
- We take part in extended science activities such as science weeks and bird watches, as well as welcoming visitors who promote a love of science. We make cross curricular links to other subjects where relevant and appropriate.
- We know and understand that we are all scientists who collaborate with our friends to share and extend our learning.
- We use a range of approaches to record children's ideas and learning including display boards and class floor books.

## Our 5 Curriculum Drivers in Science:

**Curiosity**—We want our children to be inquisitive, to ask deeper questions based on what they have learnt and the enquiry skills. Science allows our children to explore the world around them and the content taught. Lessons are about depth of knowledge alongside developing enquiry skills and thinking scientifically.

**Courage to take risks**—Children are encouraged to ask questions and find out their own answers, both during discrete lessons and during Discovery Time.

**Imaginative**—Children are excited to learn about different aspects of the world around them and have the opportunity explore these whilst 'being a scientist' and investigating a variety of questions posed by the teacher and themselves. Opportunities to get outside and access hands-on experiences will be used throughout the curriculum to enthuse and interest the children.

**Empathetic**—Our children will understand that science impacts on the world around them, from the manmade to the natural. Science will help the children to develop their ability to understand that nature, animals and humans all coexist alongside each other.

**Love for Reading**—A variety of quality texts based on the area of science for each term are used to inspire and engage our children. Sources, both primary and secondary, are used so that children gather information based on real life events. They will also visit the school library and have the opportunity to select books of their own choosing from our science collection.