

## Our Vision for Science at Tany's Dell

*We believe that Science is about developing our children's sense of enquiry and extending their knowledge and understanding of the world, preparing them for a life in an increasingly scientific and technological world today and in the future. Our children are taught essential aspects of the knowledge, methods, processes and uses of science. Building up a body of key foundational knowledge and concepts, children are encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. We believe that a broad and balanced science education is the entitlement of all our children and a love of science is nurtured through a whole school ethos and a varied science curriculum.*

*Our ambition is to develop within our children the ability to think independently and raise questions about working scientifically and the knowledge and skills that it brings. Have confidence and competence in the full range of practical skills, taking the initiative in, for example, planning and carrying out scientific investigations. Gain excellent scientific knowledge and understanding which is demonstrated in written and verbal explanations, solving challenging problems and reporting scientific findings. Have high levels of originality, imagination or innovation in the application of skills and the ability to undertake practical work in a variety of contexts, including fieldwork.*

**Knowledge** - To develop knowledge of the three areas of science Biology, Physics and Chemistry, including knowledge of scientists that have impacted the world past and present.

**Question** - For the children to be naturally inquisitive about the world around them.



**Enquiry** - To be able to develop a sense of enquiry.

*In order for our children to achieve these we will ensure that:*

- There is an effectively planned, science curriculum, which ensures continuity and progression and where knowledge is taught and built upon as topics are revisited across each key stage.
- Develop the children's sense of enquiry and extend their knowledge and understanding of the world.
- Actively promote and encourage the correct use of scientific vocabulary at all levels.
- Provide a stimulating, engaging and challenging learning environment where we encourage open-mindedness, self-assessment and perseverance.
- Developing and extending the children's scientific concepts, enabling them to be naturally inquisitive about the world and make links with other subjects.
- To effectively plan opportunities to cover all areas of working scientifically.
- To develop the children's knowledge of important scientists and their impact on the world past and present.