



## Science Mission Statement

### Science at the Woodland Federation

At both schools, our mission is to create a superb learning community that challenges children to acquire a thirst for knowledge. As an 11 class school, we endeavour to provide children with rich and meaningful learning experiences which are accessible to all. Children learn with the working scientifically skills at the heart of every lesson and teachers plan sequentially across the federation. Children recognise themselves as Scientists and build on the following to ensure that they leave us equipped with the skills that they need to continue their learning journey into KS3.

- **Scientific literacy:** children can ask, find or determine answers to questions derived from curiosity about everyday experiences. (National Science Education Standards, 1996)
- **Science capital:** can be imagined like a 'holdall', or bag, containing all the science-related knowledge, attitudes, experiences and resources that you acquire through life. It includes what Science you know, how you think about Science (your attitudes and dispositions), who you know (e.g. if your parents are very interested in Science) and the everyday engagement you have with Science.
- **Critical thinking:** the analysis of available facts, evidence, observations, and arguments to form a judgment.
- **Scientific enquiry:** the processes and skills that children should be taught and used to find out more about the world and how it works.

Our unique curriculum is carefully planned with sequential learning experiences across the federation. It is underpinned by seven key concepts and children are taught to conceptualise them and make links as they undertake their learning journey across the school. Children recognise their stage of learning and identify their prior and future learning. They understand that their learning within Science is revisited throughout their journey which is exemplified by our Science displays and books/folders. Children recognise Science as opening doors which helps to shape them as individuals. We provide a range of extra-curricular trips as well as visitors to enhance our learning provision and further develop children's Science capital.

At the Woodland Federation, we also pay close attention to the vocabulary pertinent to our subjects required by a child to explain their thinking as well as how the explanatory sentences are structured. This is in line with the Oracy project that we have implemented across our curriculum.

*"The Science of today is the technology for tomorrow." –Edward Teller*