



At Phoenix we believe that every child can succeed in Science to become a self-assured and skilled Scientist equipped with the knowledge of the world around them and the ability to investigate scientifically.

We teach Science in all year groups using the Kent Science Scheme of Work (KSSW) and PLAN to cover the National Curriculum (2014) year group expectations. The schemes are robust tools to coherently plan and sequence our curriculum towards knowledge and skills for future learning and employment. It is clear what end points the curriculum is building towards and what pupils need to know and be able to do to reach those end points. It is key that all children can be successful in science regardless of English ability. At Phoenix we have designed alternative strategies to gather evidence of success using Insight.

The Science curriculum is planned and sequenced so that new knowledge and skills build on what has been previously taught while working towards clearly defined end points. When units are repeated throughout the school, vocabulary and knowledge progresses to challenge the children's thinking further as well as introducing new ideas and material. The curriculum develops children's ability to work scientifically and have a hands-on approach to their Science learning. Teachers are given ownership to use the schemes to create fun and engaging lessons to excite and enthuse the children.

Each year group's learning is designed with a spiral approach in mind, building on previous learning; sometimes learning may be more than one academic year. The use of precise, technical scientific language is consistent across all year groups as the vocabulary used in each unit is specified. This enables children to develop the appropriate vocabulary to discuss, reason and explain their scientific understanding more clearly and precisely. Misconceptions are prepared for as is the next step of the learning journey, i.e. KS2 looking into KS3.

Going forward Phoenix will be completing the PSQM and reflected upon our provision and curriculum diet. Within this we will be making additions such as implementing 'People of Science' for each unit, exploring some of the scientists who are working, or have worked, in that area of science. Teachers can use these to extend the children's understanding of different scientific discoveries.