

Science

Intent

In Science we want to expose our pupils to a wide range of 'hands on' practical investigations, experiments and observations that will stimulate a natural interest and curiosity in the world around them, leading to a greater understanding of their health and their surroundings. We believe that learning through inquiry enables our pupils to ask more questions and to develop their own explanations, as well as being able to draw conclusions. In Science we will focus in the following areas: The body, keeping ourselves healthy, understanding body systems, everyday chemicals their dangers and uses and how our ways of living impact on the environment. Practical physics is based on problem solving with a focus on everyday situations and life skills. In all lessons there is bespoke support to improve pupils' ability to extract information and draw conclusions from their observations and investigations. Where possible, literacy, mathematics, technology and life skills are embedded throughout all units of study.

Implementation

Although the curriculum is outlined in the long term and medium term plans, it has to be flexible depending on individual pupils' needs. Progress is monitored and measured regularly through marking, the Grange Steps and formal assessments to ensure that all progress is acknowledged and celebrated. Entry level assessments are completed when the pupils are ready, at the end of each topic. This not only helps to identify next steps but also highlights what pathway is suitable to move onto.

Impact

It is hoped that all pupils will develop skills that will enable them to function more independently and to meet their needs when they leave Grange Academy. This includes knowledge and skills to carry out investigations as independently as possible, to work with a partner or in a team, to make predictions and to document findings in different ways. The impact of teaching and learning of Science at Grange Academy will be measured by pupils' ability to secure an accredited outcome such as Entry levels 1-3 or combined science GCSE (AQA synergy). It will also be measured on our pupils' ability to attend an appropriate post 16 placement and where appropriate, function well in a work placement.

