

Science Curriculum Statement

At OHS, we strive to deepen our pupils' understanding and promote positive attitudes to science through a bespoke, pupil centred approach. We plan and deliver individualised learning journeys, reflecting prioritised areas for learning with interventions to address any gaps in knowledge or skills. Where it is possible and appropriate, we use the pupils' enrolled school scheme of work, adapting it to their needs and circumstances.

Science at OHS is about developing pupil's ideas and ways of working that enable them to make sense of the world in which they live through knowledge, investigation and application of scientific skills. At OHS, pupils develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics. We look for opportunities to question, suggest, discuss and link scientific ideas together and we aim to enrich the pupils' understanding both within and beyond the syllabus they are following.

Our aims are to:

- Engage pupils and help them to develop an enquiring mind around science
- Foster concern about, and active care for, our environment
- Provide opportunities for pupils to review, reinforce and extend their scientific skills and knowledge
- Provide opportunities for pupils to share and discuss their ideas in order to develop their spoken language, cognitive, social and linguistic skills
- Prepare pupils for life in an increasingly scientific and technological world
- Teach pupils to think critically and form conclusions based on observations and evidence
- Help pupils acquire an ability to communicate using scientific vocabulary

Through a bespoke curriculum, closely aligned with that of the enrolled school where possible, we work with pupils to:

- a) Develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- b) Develop understanding of the nature, processes and methods of science, through different types of scientific enquiry that help them to answer scientific questions about the world around them and the uses and implications of science today and for the future
- c) Develop and learn to apply observational, practical, modelling, enquiry, problem-solving skills and mathematical skills
- d) Develop their ability to evaluate claims based on science through critical analysis of the methodology, evidence and conclusions, both qualitatively and quantitatively
- e) Acquire practical scientific skills as far as possible, given the nature of delivering Science in a hospital environment

