



Intent

'Investigate like a Scientist'

The Science curriculum at St Aloysius' offers a broad and engaging curriculum with God at the centre, reflecting on prior knowledge and putting learning in the context of extending their own knowledge and growing closer to God.

Key knowledge and skills objectives are structured from Early Years to Year 6 with a focus on building upon prior knowledge and developing our pupils to 'investigate like a Scientist'.

Science topics are introduced to pupils through weekly objectives. Prior knowledge of the topic is elicited and then pupils are given opportunities to practise and deepen their Science knowledge.

Implementation

Staff have worked collaboratively to review the Creative Catholic Curriculum and ensure progression of knowledge and skills and coverage of National Curriculum objectives. This is mapped out in the whole school integrated units and in whole school overviews referring to the National Curriculum objectives.

The Science subject leader has created a topic overview for each year group for the subject. These are central to the planning process and form the basis of Science objectives and knowledge organisers. These documents outline the key vocabulary, which are shared with parents at the start of each topic.

Prior knowledge is mapped in a Science book at the start of a topic. This forms a baseline assessment and teachers adapt their plans based on this. At the end of each topic covered, children add to this mind map to demonstrate knowledge and skills that have been learnt and remembered. This is used as evidence to support teacher judgements in Science assessments.

Teachers plan practical and engaging lessons which focus on the knowledge and skills in the Science National Curriculum mapped in the topic overview for their year group. Key vocabulary is displayed in the classroom and referred to in lessons. These are also shared with parents and carers in the knowledge organisers.

Where possible, teachers plan for visits and visitors to enhance the Science curriculum provision and to provide real-life experiences for pupils. Work is recorded in a variety of ways through use of ICT, drama, written tasks, graphs, tables and illustrations. Where appropriate, key vocabulary and knowledge is revisited through 'retrieval and practise tasks' and at the beginning of subsequent lessons.

Impact

At the end of each Science topic, children add to the mind map created at the beginning of the topic with a green pen to demonstrate knowledge and skills that have been learnt and remembered. Teachers use this and their formative assessment throughout the unit to give a judgement of 'working towards', 'expected' or 'greater depth' for the knowledge and skills demonstrated across the unit.

The Science subject leader and senior leaders monitor the data provided each term as well as a sample of the Science books. They also look at topic overviews and the national curriculum objectives to ensure coverage of skills and knowledge.