



## Atherton Sacred Heart RC Primary School

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### SCIENCE and DT in the Curriculum

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#### Why do we study Science?

A high-quality science education provides the foundations for understanding the world through the specific disciplines of biology, chemistry and physics. Science has changed our lives and is vital to the world's future prosperity, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. Through building up a body of key foundational knowledge and concepts, pupils should be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They should be encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes.

#### What are our aims for the children?

The national curriculum for science aims to ensure that all pupils:

- •develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- •develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them
- •are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.

#### Why do we study Design and Technology?

Design and technology is an inspiring, rigorous and practical subject. Using creativity and imagination, pupils design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values. They acquire a broad range of subject knowledge and draw on disciplines such as mathematics, science, engineering, computing and art. Pupils learn how to take risks, becoming resourceful, innovative, enterprising and capable citizens. Through the evaluation of past and present design and technology, they develop a critical understanding of its impact on daily life and the wider world. High-quality design and technology education makes an essential contribution to the creativity, culture, wealth and well-being of the nation.