

# SCIENCE CURRICULUM INTENT – PARK ASPIRE

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Intent – Implementation – Impact

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## **Primary Curriculum**

### **Intent**

The intent of the Primary Science curriculum at Park Aspire is to provide children with a solid foundation of scientific knowledge, understanding and skills. Our curriculum is designed to foster a love for science and encourage children to develop their curiosity, creativity and critical thinking skills.

### **Implementation**

The Primary Science curriculum at Park Aspire is delivered through a range of engaging and interactive activities, such as practical experiments, investigations, and scientific research. We use a variety of teaching and learning approaches, including whole-class teaching, group work, and independent learning, to ensure that all children can access the curriculum.

The curriculum is structured around three main areas: Biology, Chemistry, and Physics. Within each of these areas, children will learn about the fundamental principles and concepts of Science, as well as develop the skills necessary to conduct experiments, analyse data and draw conclusions.

We also place a strong emphasis on cross-curricular links, encouraging children to make connections between Science and other subjects such as Mathematics, Literacy, and Technology.

### **Impact**

The impact of the Primary Science curriculum at Park Aspire will be seen in the development of pupil's scientific knowledge, understanding and skills. Children will have a solid foundation in the key principles of Biology, Chemistry, and Physics, and will be well-prepared for further study in these subjects.

By the end of their primary education, children will have developed a range of scientific skills, such as problem-solving, critical thinking, and data analysis. They will also have developed key personal qualities, such as resilience, creativity, and curiosity, which will be valuable in all areas of their lives.

Overall, the Primary Science curriculum at Park Aspire is designed to provide a high-quality, engaging and challenging education that inspires a love of science and prepares children for their future studies and careers. We aim to develop confident and well-rounded individuals who are equipped with the skills and knowledge necessary to thrive in a rapidly changing world.

## Key Stage 3 curriculum

### Intent

The intent of the KS3 Science curriculum at Park Aspire is to provide a well-rounded education that enables pupils to develop a deep understanding of scientific concepts and principles. The curriculum is designed to encourage pupils to develop their investigative skills, think critically and to work collaboratively with others. Through a range of practical activities, pupils will develop their scientific knowledge and understanding, while also developing key skills such as problem-solving, data analysis, and communication.

### Implementation

The KS3 Science curriculum at Park Aspire is designed to build on the knowledge and skills that pupils have acquired in their primary school education. The curriculum is divided into three main areas: Biology, Chemistry and Physics. Within each of these areas, pupils will study a range of topics that are designed to build their knowledge and understanding of key scientific concepts.

The curriculum is delivered through a range of teaching and learning approaches, including practical experiments and group work. We plan regular 'Awe & Wonder' sessions to allow us to link different curriculum subjects together and cover topics which may have been missed in primary school. This also provides the pupils with a greater understanding of the world around them, allowing them to see the bigger picture.

### Impact

The impact of the KS3 Science curriculum at Park Aspire will be seen in the development of pupils' scientific knowledge, understanding and skills. By the end of KS3, pupils will have a solid foundation in the key principles of Biology, Chemistry and Physics, and will be well-prepared for their next setting.

Pupils will also develop key transferable skills such as problem-solving, critical thinking, and communication, which will be valuable in a range of academic and vocational contexts. They will be able to apply their scientific knowledge and understanding to real-world problems, and to make informed decisions based on evidence and data.

Overall, the KS3 Science curriculum at Park Aspire is designed to provide a high-quality, engaging and challenging education that equips pupils with the knowledge, skills and understanding they need to succeed in their future studies and careers.