

## **Physics Curriculum Vision**

### **Why should students learn your subject?**

Physics is central to understanding the world around us, the world inside us and the world beyond us.

The most fundamental of the sciences, Physics is the study of matter and energy and has the ultimate aim of understanding how our universe works.

Physics challenges our imaginations and has led to amazing discoveries like electricity and lasers, which, in turn, have led to ground-breaking technologies that have completely altered our daily lives.

### **What is the core knowledge in your subject that all students should understand?**

- How to work scientifically
- Energy
- Electricity
- The particle model of matter
- Atomic structure
- Forces
- Waves
- Electromagnetism
- Space physics

### **What do students do with their knowledge to demonstrate their understanding?**

Physics understanding is assessed in a variety of ways, including:

- Short written responses
- Structured questions that involve a series of calculations
- Longer written answers that involve the presentation of clear scientific facts in a logical structure