

# Orsett Heath Academy

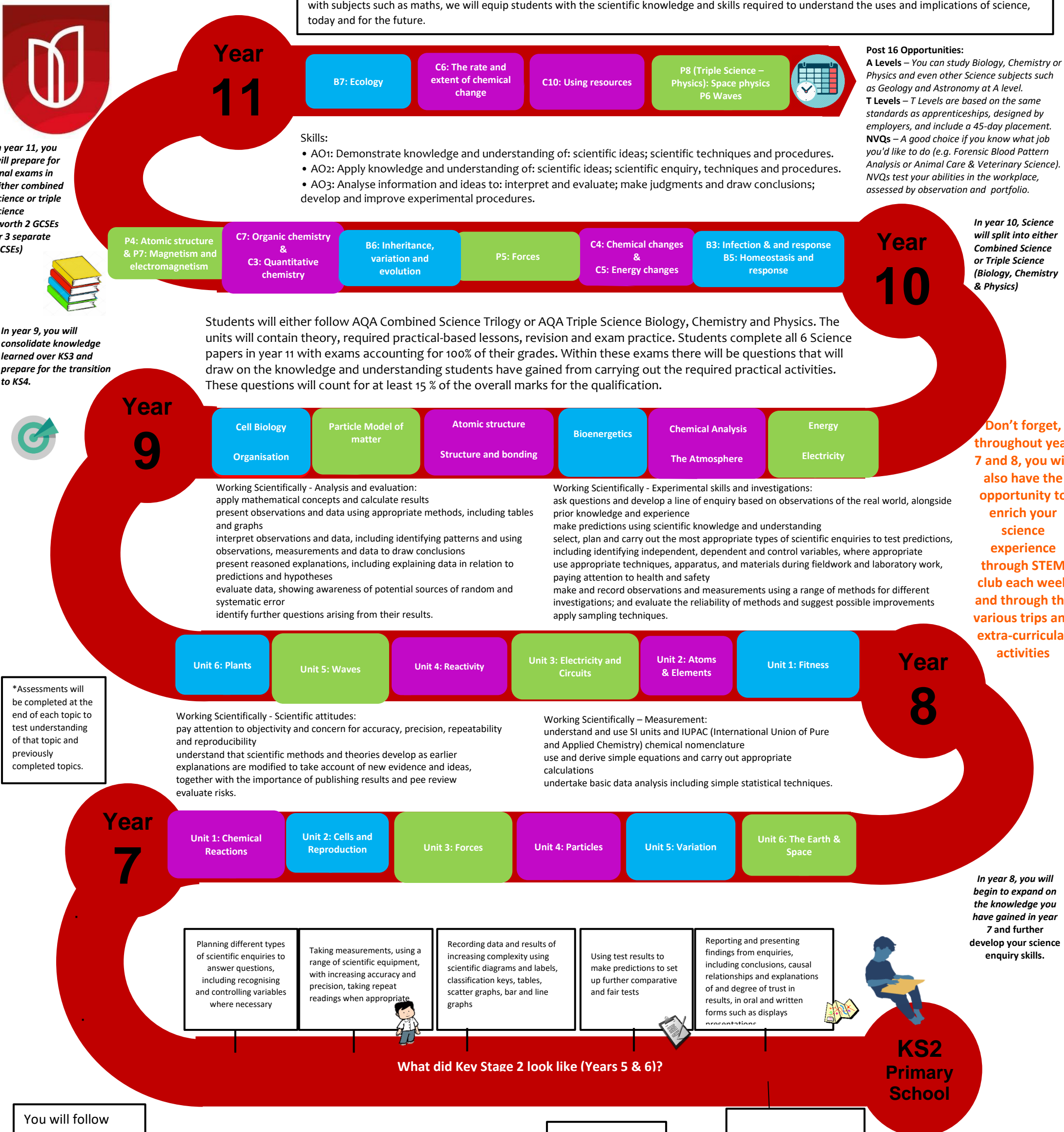
## Science Department

### Curriculum Journey

**The purpose of the curriculum:**  
We believe that science education provides the foundations for understanding the world. Science changes our lives and is vital to the world's future prosperity. The overarching aim for Science at Orsett Heath Academy is to help our learners to acquire deeper scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics. In order to achieve this, students will develop an understanding of the nature, processes and methods of science through different types of scientific enquiries. Students will use their learning to help to answer scientific questions about the world around them. Through science education, students will learn to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They are encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes. By revisiting the 'big ideas' in Science through a spiral curriculum, and by exploiting curriculum links with subjects such as maths, we will equip students with the scientific knowledge and skills required to understand the uses and implications of science, today and for the future.

In year 11, you will prepare for final exams in either combined science or triple science (worth 2 GCSEs or 3 separate GCSEs)

In year 9, you will consolidate knowledge learned over KS3 and prepare for the transition to KS4.



**When you reach year 7, The National Curriculum for Science aims to ensure that all pupils:**  
Have a deeper understanding the world through the specific disciplines of biology, chemistry and physics.  
Appreciate how science has changed our lives and can articulate why it is vital to the world's future prosperity.  
Learn about aspects of the knowledge, methods, processes and uses of science.  
Develop the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena.  
Are encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes.