

## OVERVIEW

Students will continue to develop their knowledge and skills in biology, chemistry, and physics. As well as consolidating the curriculum content students will be working scientifically throughout all topics. This will include completing practical activities and learning through discovery. 8CP will expand on what was learnt in 7CP particles and 7CC chemical reactions, 8BD digestion and nutrition will build on the year 7 cells topic but will look at more specific detail about the digestive system and will relate this to the benefits of a healthy lifestyle. 8CM Materials and the Earth will teach students how they can limit the damage that humans are inflicting on the Earth.

## Autumn

**8CP Chemistry - Periodic table**

Elements, atomic model, properties, compounds, Conservation of mass, group 1 and 7.

**8PL Physics - Light and space**

Light waves, reflection, refraction, vision, colour, filters, gravity, seasons, the universe.

**8BD Biology - Digestion and nutrition**

Diet, energy release, food tests, digestive system, enzymes.

**Assessment:**

End of topic test for each topic.

## Spring

**8PE Electricity and magnetism**

Series and parallel circuits, potential difference, Ohm's law, resistance, insulators, electromagnets.

Revision – time will be spent revising for the end of year assessments.

**8CM Chemistry - Materials and the Earth**

Structure of the Earth, rocks, fossils, fossil fuels, atmosphere, global warming, recycling.

**Revision for mid-year**

Time will be spent revising topics from the autumn term for the mid-year exam.

**Assessment:**

Mid-year assessment – 8CP Periodic table, 8PL Light and space and 8BE Ecological relationships.

End of topic tests for each unit.

## Summer

**Revision for End of year**

Time will be spent revising all topics for the end of year exam.

**9BB Plants and photosynthesis**

Photosynthesis Reaction, Adaptations of a leaf, Investigating rates of Photosynthesis.

**9PM Matter**

Revisit particle theory, Density, volume, calculations, Investigating Density of an irregular shaped object.

**Assessment:**

End of year assessment: all Year 8 topics.

End of topic tests for each topic.

**Useful resources for supporting your child at home:**

BBC bitesize KS3  
Oak academy lessons

**Homework:**

Weekly Carousel Quizzes will be sent to yours and your child's email address.