

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.

Aut

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.

Assessment:

End of topic test for each topic.

Spr

8BD Biology - Digestion and nutrition

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

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.

Sum

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.

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 Educake homework and paper-based homework that will be set on Teams.