



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 acquiring working scientifically skills throughout all topics, these 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 Atoms and the Periodic Table

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

8PL Light and Sound

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

8BD Digestion and Nutrition

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

Assessment

End of topic test for each unit.

Spring

8PS Space

Earth, seasons, gravity, orbits, the solar system, stars, the universe, planetary formation

8CM Materials and the Earth

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

8PF Forces in Action

Forces and moments, work done, simple machines, springs, Hooke's law

Assessment

End of topic test for each unit.

Summer

8PM Matter

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

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

9BE Ecology

Food chains and webs, pyramids of numbers, decay, estimating population, classifying animals, adaptations, natural selection, evolution and extinction, biodiversity

Assessment

End of topic test for each unit.

End of year exam will be based on all topics taught this year.

Resources for supporting your child at home

Continuity Oak lessons
BBC Bitesize
Sparx Science independent learning

Homework

Weekly Sparx homework (set on Arbor).