OVERVIEW

Students continue to build on the knowledge and understanding gained from Year 7 and 8, studying topics that build in complexity. The concept of photosynthesis and our relationship with plants was taught in 8BE Ecology and this will be expanded on and put into a new concept in 9BP Plants and Photosynthesis, it will also draw on knowledge from 7BC Cells. 9PF Forces in Action will expand on prior learning from 7PF Forces and this topic will focus more on calculations, to deepen their understanding.

Autum

9CR Reactivity

Atoms, Elements and Compounds, Ionic Bonding, Period Table, Metals & acids, metal oxides & acids, metal carbonates & acid, metal extraction, Fractional Distillation

9PF Forces in Action

Calculations, Moments, Pivots and levers, momentum

9CE Energetics and Rates

Exothermic and Endothermic reactions, rates of reactions, effect of surface area, effect of temperature, effect of concentration on rates or reactions, catalysis

Assessment

End of topic test for each unit.

pring

9BB Biological Systems and Processes

Skeleton, Muscles, Respiratory System, Circulatory System, Smoking, Alcohol, Drugs.

9PS Sound Waves

Waves, Wave function, the ear, how speakers work Revision for mid- year assessments
9BP Plants and

photosynthesis 9CR Reactivity

9CE Energetics and rates
9PM Matter

9PF Forces in action

Assessment

End of topic test for each unit.

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

Summer

Biology

B1 cells

Transport in Cells, Osmosis Practical, Microbiology, Stem cells, Mitosis, Cancer

Chemistry

C1 Atomic Structure

Atomic Structure, development of atomic model, history of periodic table, group 1 elements, group 7 elements.

Assessment

End of topic test for each unit.

Resources for supporting your child at home

Continuity Oak lessons

BBC Bitesize

Sparx Science independent learning

Homework

Weekly Sparx homework (set on Arbor).