Salford City Academy
The best in everyone™
Part of United Learning

Science Y9

Overview

Students continue to build on the knowledge gained from Year 7 and 8, studying topics that build in complexity. 9CR and 9CE deepen their understanding of chemical reactions, linking them to the concept of energy from physics and linking them to real-world contexts. 9PE revisits the concept of electricity in much more detail than Y7, studying circuits and their behaviour. 9BB introduces more detail on the various organ systems of the human body and introduces interpreting data to inform a healthy lifestyle.

Autumn

9CR Reactivity

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

9PE Electricity and Magnetism

Series and parallel circuits, current, potential difference (voltage), resistance, Ohm's Law and resistance of a wire, insulators and static electricity, magnetic fields, electromagnetism

Assessment

End of topic test for each unit.

Spring

9BB Biological Systems and Processes

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

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

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 9 exams 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