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

Science Y7

Overview

Students will 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 This will include completing practical activities. There will be a focus on fluency and skills related to the topics, such as graph drawing and analysing, identifying variables and evaluating scientific conclusions.

Autumn

7.01 Particles, Substances and Mixtures
Particle model of matter, diffusion, solutions and pressure, separating mixtures

7.02 Fundamentals of Physics
Forces, force diagrams, friction, energy stores and transfers

7.03 Cells and Organisation
Microscopes, cell structure, animal and plant cells, organisation, diffusion

Assessment
End of topic test for each unit.

Spring

7.04 Chemical Changes
Atoms and elements, compounds, chemical formulae, chemical reactions, conservation of mass, energy changes

7.05 Organ Systems
Uni- and multicellular organisms, gas exchange, breathing, digestive system, circulatory system, musculoskeletal system

7.06 Sound and Light
Sound waves, absorption, reflection, scattering, human hearing, light waves, colour vision, refraction, focussing, human vision

Assessment
Mid-year exam.

End of topic test for each unit.

Summer

7.07 Materials
Ceramics, polymers, composites

7.08 Life Cycles
Genes and inheritance, variation, growth and development, human sexual reproduction, puberty, human menstrual cycle, pregnancy, foetal development and birth, plant reproduction, asexual reproduction

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.