



St Benedict's Catholic School

The Catholic Secondary School for West Suffolk

Science Curriculum Guide

Year 9

Autumn Taught Content

Biology

- Microscopes & Cells
- Enzymes
- Respiration
- Photosynthesis

Chemistry

- Particle model
- The atomic model
- Purity
- Formula masses
- Separation techniques

Physics

- Development of Atomic models

Spring Taught Content

Chemistry

- Metals and non-metals
- Periodic table
- Chemical bonding
- Polymers
- Allotropes of Carbon

Physics

- Density
- Specific Latent Heat
- Specific Heat Capacity
- Pressure

Summer Taught Content

Biology

- Diffusion & Osmosis
- Mitosis
- Specialised cells

Physics

- Speed & Velocity
- Forces

- Equations of motion
- Newton's Laws

Assessment

Students will be tested formally throughout the year. This will be once per term, in the weeks either side of the half term breaks. There will also be less formal assessments at other points during the year. At the end of the year, students will be advised if they will be completing the GCSE Separate science or combined science course in year 10.

Homework Expectations

Students should be set homework once every fortnight. This may include completing questions, research tasks or revision for upcoming assessments.

Reading List

Thing Explainer: Complicated Stuff in Simple Words – Randall Munroe

The Elements: A Visual Exploration of Every Known Atom in the Universe – Theodore Gray

The Diversity of Life – E. O. Wilson

The new way things work – D Macauley

Cosmos – Carl Sagan

Storm in a Teacup – Helen Czerski

Bad Science – Ben Goldacre