



# 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