



St Benedict's Catholic School

The Catholic Secondary School for West Suffolk

Science Curriculum Guide

Year 8

Autumn Taught Content

- Organisms 2: Breathing, gas exchange, balanced diet, digestive system
- Matter 2: Atoms elements & compounds, Group 1, 7, 0 Elements, Polymers
- Electromagnets 2: Magnets & magnetic fields, electromagnets
- Forces 2: Balanced Forces, Friction, Elastic, Pressure, Turning forces

Spring Taught Content

- Ecosystems 2: Respiration, Fermentation, Photosynthesis
- Reactions 2: Conservation of mass, Oxidation, Energy changes, Reactivity
- Waves 2: Detecting sound, Uses of sound, EM spectrum, Wave effects
- Energy 2: Heating & cooling, Heat transfers, Work, Power

Summer Taught Content

- Genetics 2: Variation, DNA, Inheritance, Natural Selection, Biodiversity & Sampling
- Earth 2: Carbon cycle, Global warming, Recycling, Minerals & Ores, Metal Extraction
- Practical Investigations

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 a less formal assessments at other points during the year. 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

Ender's Game – Orson Scott Card

The Hitchhikers Guide to the Galaxy – Douglas Adams