



St Benedict's Catholic School

The Catholic Secondary School for West Suffolk

Chemistry Combined Science Curriculum Guide

Year 10

Exam Board: J250 OCR Gateway A (9-1) Combined Science

To find out more about this course, please follow the link below.

<https://www.ocr.org.uk/qualifications/gcse/gateway-science-suite-combined-science-a-j250-from-2016/>

Autumn Taught Content

Unit C4:

- Group 1, 7 & 0 elements
- Detecting gases

Unit C3

- Chemical formulae
- Chemical formulae
- Exothermic and endothermic reactions
- Energy changes

Spring Taught Content

Unit C3 cont'd:

- Redox reactions
- pH scale
- Acids
- Electrolysis
- Electroplating

Unit C5:

- Rate of Reaction

Summer Taught Content

Unit C5 cont'd:

- Equilibria
- Percentage Yield & Atom Economy

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. Students will sit papers at either Higher or Foundation tier based on previous assessment. There will also be less formal assessments at other points during the year. Students will also be regularly tested on previous material from the GCSE course through low stakes quizzes.

Homework Expectations

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

Reading List

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

The Big Bang – A history of Explosives. – GI Brown

What is Chemistry? – Peter Atkins.

Why Does Asparagus Make your We Smell? And 57 other curious food and drink questions.

– Andy Brunning.

Strange Chemistry: The Stories Your Chemistry Teacher Wouldn't Tell You. – Steven Farmer.