



# St Benedict's Catholic School

*The Catholic Secondary School for West Suffolk*

## Physics 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 P2:

- Forces and Springs
- Potential Energies
- Revision of topics covered during school closure.

Unit P3:

- Electrostatics
- Current
- Potential difference
- Circuits
- Resistance
- Power

#### Spring Taught Content

Unit P4:

- Magnets
- Current and fields
- Uses of magnetism

Unit P5:

- Wave properties
- Waves speed

#### Summer Taught Content

Unit P5 cont'd:

- Electromagnetic waves

Revision of previous units.

## **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**

Almost Like a Whale – Steve Jones

Cosmos - Carl Sagan

Storm in a Teacup: The Physics of Everyday Life – Helen Czerski

Stephen Hawking: A Graphic Guide – JP McEvoy & Oscar Zarate