



St Benedict's Catholic School

The Catholic Secondary School for West Suffolk

Physics Separate Science Curriculum Guide

Year 11

Exam Board: J249 OCR Gateway A (9-1) Physics

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

<https://www.ocr.org.uk/qualifications/gcse/gateway-science-suite-physics-a-j249-from-2016/>

Autumn Taught Content	Spring Taught Content	Summer Taught Content
<p>Unit P6:</p> <ul style="list-style-type: none">• Radioactivity• Nuclear equations• Half-life• Nuclear fission & fusion <p>Unit P7:</p> <ul style="list-style-type: none">• Energy stores• Energy transfers, inc. heat transfers• Energy equations	<p>Unit P8:</p> <ul style="list-style-type: none">• Motion calculations• Reaction times• Collisions• Energy resources• Mains electricity• The Big Bang• Solar system• Satellites• Inside our Planet <p>Revision from previous units in preparation for summer exams.</p>	<p>Revision from previous units in preparation for summer exams.</p>

Assessment

Students will be tested formally throughout the year. There will be mock exams in November, January & March. 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. 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

Flatland – Edwin A. Abbot