



St Benedict's Catholic School

The Catholic Secondary School for West Suffolk

Physics Separate Science Curriculum Guide

Year 10

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 P2:</p> <ul style="list-style-type: none">Forces and SpringsPotential EnergiesMomentsSimple machinesRevision of topics from P2; Equations of motion, Forces, Newton's Laws <p>Unit P3:</p> <ul style="list-style-type: none">ElectrostaticsCurrentPotential differenceCircuitsResistancePower	<p>Unit P4:</p> <ul style="list-style-type: none">MagnetsCurrent and fieldsUses of magnetismGenerators & TransformersMicrophones <p>Unit P5:</p> <ul style="list-style-type: none">Wave propertiesWaves speed	<p>Unit P5 cont'd:</p> <ul style="list-style-type: none">Wave propertiesWaves speedSound and HearingElectromagnetic wavesLensesColour

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. 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