

# St. Aidan's Catholic Academy

## Y10 Triple Science (AQA)

Half Term	Curriculum Content	Suggest Reading or Extension Activities
Autumn HT1	<p><b>Students will follow the AQA Biology (8461), Chemistry (8462) and Physics (8463) Course.</b></p> <p>C4- Chemical Changes: Reactivity Series, Extraction, Displacement, Reactions of metals &amp; acids, making salts, pH Scale, acids and alkalis, Electrolysis</p> <p>C5- Energy Changes: Endo &amp; Exothermic reactions, reaction profiles and bond energy</p> <p>B3- Infection and response, vaccination</p>	<p>Chemistry Revision Guide</p> <p>Biology Revision Guide</p>
Autumn HT2	<p>B3- Infection and response, vaccination</p> <p>B4- Bioenergetics, photosynthesis, transpiration and respiration</p> <p>P4- Atomic Structure, Radioactivity, decay and contamination</p>	<p>Biology Revision Guide</p> <p>Physics Revision Guide</p> <p>Chemistry Revision Guide</p>
Spring HT3	<p>P4- Atomic Structure, Radioactivity, decay and contamination</p> <p>C6- Rate and extent of chemical changes: Rates of reaction, Collision Theory, equilibrium and factors affecting it</p> <p>C7- Organic Chemistry: Crude Oil, Fractional distillation, cracking and alkenes</p>	<p>Chemistry Revision Guide</p> <p>Biology Revision Guide</p>
Spring HT4	<p>C7- Organic Chemistry: Crude Oil, Fractional distillation, cracking and alkenes</p> <p>C8- Chemical Analysis: Pure Substances, Formulations, Chromatography</p> <p>C9- Chemistry of the atmosphere: The Earth's Atmosphere, Greenhouse gases and human impact, Global climate change, reducing the carbon footprint, atmospheric pollutants</p>	<p>Biology Revision Guide</p>
Summer HT5	<p>C10- Using resources: Earth's resources, Potable Water, treating waste water, alternative methods of extracting metals, Life cycle assessments, reducing the use of resources</p> <p>B5- Homeostasis &amp; Response: Homeostasis, reflex actions, the endocrine system, Controlling glucose levels, hormones in reproduction, contraception, controlling fertility, negative feedback</p>	<p>Biology Revision Guide</p> <p>Physics revision Guide</p>
Summer HT6	<p>B5- Homeostasis &amp; Response: Homeostasis, reflex actions, the endocrine system, Controlling glucose levels, hormones in reproduction, contraception, controlling fertility, negative feedback</p>	<p>Physics Revision Guide</p>

	<p>B6- Inheritance- Sexual and asexual reproduction, Meiosis, DNA and the genome, genetic inheritance, inherited disorders and sex determination</p> <p>B7- Variation and evolution: Selective breeding, genetic engineering, evidence for evolution, fossils, extinction, resistant bacteria and classifying organisms</p>	
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Half Term	Assessment Tasks
Autumn HT 1	<p>C4- Knowledge Counts (10mins)</p> <p>C4- Written assessment (exam style questions) (20mins)</p> <p>C4- End of Topic Test(~30mins)</p> <p>B3- Knowledge Counts (10mins)</p> <p>B3- Written assessment (exam style questions) (20mins)</p> <p>B3- End of Topic Test(~30mins)</p> <p>Chemistry- Mock Paper 1 (1hr 15min)</p>
Autumn HT 2	<p>B4- Knowledge Counts (10mins)</p> <p>B4- Written assessment (exam style questions) (20mins)</p> <p>B4- End of Topic Test(~30mins)</p> <p>P4- Knowledge Counts (10mins)</p> <p>P4- Written assessment (exam style questions) (20mins)</p> <p>C6- Knowledge Counts (10mins)</p> <p>C6- End of Topic Test(~30mins)</p> <p>C7- Knowledge Counts (10mins)</p> <p>C8- Knowledge Counts (10mins)</p> <p>C8- Written assessment (exam style questions) (20mins)</p> <p>Biology- Mock Paper 1 (1hr 15min)</p>
Spring HT	<p>C9- Knowledge Counts (10mins)</p> <p>C9- Written assessment (exam style questions) (20mins)</p> <p>C10- Knowledge Counts (10mins)</p> <p>C10- Written assessment (exam style questions) (20mins)</p> <p>B5- Knowledge Counts (10mins)</p> <p>B5- Written assessment (exam style questions) (20mins)</p> <p>Physics- Mock Paper 1 (1hr 15min)</p>
Spring HT 4	<p>B5- End of Topic Test(~30mins)</p> <p>B6- Knowledge Counts (10mins)</p> <p>B6- End of Topic Test(~30mins)</p> <p>B7- Knowledge Counts (10mins)</p> <p>B7- Written assessment (exam style questions) (20mins)</p> <p>B7- End of Topic Test(~30mins)</p> <p>Chemistry- Mock Paper 2 (1hr 15min)</p>
Summer HT 5	<p>B8- Knowledge Counts (10mins)</p> <p>B8- Written assessment (exam style questions) (20mins)</p> <p>B8- Written assessment (exam style questions) (20mins)</p> <p>B8- End of Topic Test(~30mins)</p> <p>P5- Knowledge Counts (10mins)</p> <p>P5- Written assessment (exam style questions) (20mins)</p> <p>P5- Written assessment (exam style questions) (20mins)</p> <p>Biology- Mock Paper 2 (1hr 15min)</p>

Summer HT6	<p>P5- Written assessment (exam style questions) (20mins)</p> <p>P5- End of Topic Test(~30mins)</p> <p>P6- Knowledge Counts (10mins)</p> <p>P6- End of Topic Test(~30mins)</p> <p>P7- Knowledge Counts (10mins)</p> <p>P7- Written assessment (exam style questions) (20mins)</p> <p>Physics- Mock Paper 2 (1hr 15min)</p>
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Parents /Carers can help their child by:	<p>Encourage/ help their sons to learn the Knowledge Counts material</p> <p>Encourage/ help their sons to learn the Knowledge Counts material</p> <p>Purchasing a revision guide from the school £5:50 or from a bookstore/ online (~£10)</p> <p>Helping their sons learn how to revise so they know how to prepare themselves prior to assessment; making sure that students are not distracted by their phones/ computers or other devices and that they try various approaches to revision.</p> <p>Checking their sons are completing homework set either via parent ebackpack or planners.</p>
Useful websites	<p><a href="http://www.educake.co.uk">www.educake.co.uk</a> Science homework is set through this site.</p> <p><a href="http://www.bbc.co.uk/education/subjects/zrkw2hv">http://www.bbc.co.uk/education/subjects/zrkw2hv</a></p> <p><a href="https://revisionscience.com/gcse-revision">https://revisionscience.com/gcse-revision</a></p> <p><a href="https://www.youtube.com/user/myGCSEscience">https://www.youtube.com/user/myGCSEscience</a></p> <p><a href="http://www.gcsescience.com/">http://www.gcsescience.com/</a></p> <p><a href="http://www.gojimo.com/gcse-science-revision/">http://www.gojimo.com/gcse-science-revision/</a> (need to set up an account and download app onto phones- a good free app for short multichoice questions)</p>
Revision Sources	<p>Revision guide available from school £5:50</p> <p>Any book that refers to the AQA Combined Science: Trilogy Course</p> <p>Websites (as above)</p>
Extra Curricula Activities	<p>Work Discovery days</p> <p>STEM Activity days</p>

Who can I contact?	Head of Department	<p>Mrs Amelia Sanderson</p> <p><a href="mailto:Amelia.sanderson@staidanscatholicacademy.co.uk">Amelia.sanderson@staidanscatholicacademy.co.uk</a></p>
	Subject Teachers	<p>Mr Sanderson, Mr Hamilton, Mr Stephenson, Miss Hutchinson, Miss Woffindin, Miss Hodgson, Miss Thomas, Dr Finney</p>