



KS4 Learning Overview

Physics

Exam Board: AQA

Year 11		
Term	Topics	Extra learning opportunities
Autumn 1	Waves	<p>Magazines and journals: Physics World- The Institute of Physics own magazine covering current Physics research and latest developments New Scientist- Reports on current developments from across the world of science BBC Science News- the latest news in science from around the world Science Daily- Website featuring the latest Science developments, with a specific area for Physics research</p> <p>Specific Topic resources: Electromagnetism: Documentary on How the Electromagnetic Spectrum Works (Full Documentary) - YouTube NASA - Tour of the Electromagnetic Spectrum - YouTube How to Measure the Speed of Light with Marshmallows - Christmas Lectures with Neil Johnson - YouTube Light waves, visible and invisible - Lucianne Walkowicz - YouTube</p>
Autumn 2 & Spring 1	Electromagnets	<p>Magazines and journals: Physics World- The Institute of Physics own magazine covering current Physics research and latest developments New Scientist- Reports on current developments from across the world of science BBC Science News- the latest news in science from around the world Science Daily- Website featuring the latest Science developments, with a specific area for Physics research</p> <p>Specific Topic resources: Nikola Tesla Documentary The Forgotten Inventor - YouTube Research Nikola Tesla, and how electric cars work.</p>

Spring 2	Space	<p>Magazines and journals:</p> <p>Physics World- The Institute of Physics own magazine covering current Physics research and latest developments</p> <p>New Scientist- Reports on current developments from across the world of science</p> <p>BBC Science News- the latest news in science from around the world</p> <p>Science Daily- Website featuring the latest Science developments, with a specific area for Physics research</p> <p>Specific Topic resources:</p> <p>Brian Cox BBC documentary – space https://www.bbc.co.uk/iplayer/episode/m000x9v4/brian-coxs-adventures-in-space-and-time-series-1-4-what-is-time</p> <p>kurzgesagt on youtube:</p> <p>https://www.youtube.com/watch?v=9P6rdqiybaw</p> <p>https://www.youtube.com/watch?v=QqsLTNkzvaY</p> <p>https://www.youtube.com/watch?v=lheapd7bgLA</p> <p>https://www.youtube.com/watch?v=pP44EPBMb8A</p> <p>https://www.youtube.com/watch?v=5TbUxGZtwGI</p> <p>national geographic documentary on the solar system: https://www.youtube.com/watch?v=libKVRa01L8</p> <p>Watch the films... Interstellar, Gravity, Apollo 13, the theory of everything</p>
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