



KS4 Learning Overview

Physics

Exam Board: AQA

Year 10		
Term	Topics	Extra learning opportunities
Autumn 1&2	Electricity	<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: Common Physics Misconceptions - YouTube</p> <p>Circuit Construction Kit: DC - Series Circuit Parallel Circuit Ohm's Law - PhET Interactive Simulations (colorado.edu)</p> <p>What is electricity? - Electricity Explained - (1) - YouTube</p>
Spring 1	Particle Model	<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: Specific Heat Capacity Demonstration with Balloons - GCSE Physics - YouTube – practical at home</p>

Spring 2	Radioactivity	<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><u>Watch Chernobyl 1986 Netflix Official Site</u></p> <p><u>What Caused the Catastrophic Nuclear Accident in Chernobyl? - YouTube</u></p> <ul style="list-style-type: none"> • Watch Batman Dark Knight Rises Spiderman 2 • Chain reaction 1996 Is the scientific technology regarding nuclear fusion scientific accurately in these films? <p><u>Do we Need Nuclear Energy to Stop Climate Change? - YouTube</u></p> <p><u>Worst Nuclear Accidents in History - YouTube</u> <u>Fusion Power Explained – Future or Failure - YouTube</u></p>
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Summer 1&2	Forces	<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><u>Formula 1 Car Development And Production HOW IT'S MADE - YouTube</u></p> <p><u>BBC Documentary - Super Sub USS Submarines Ultimate Structures -National Geographic - YouTube</u></p> <p><u>How Gravity Shapes The Human Body With Jim Al-Khalili Gravity And Me Spark - YouTube</u></p> <p><u>Gravity, size and mass Physics - Wonders of Life - YouTube</u></p> <p><u>BBC iPlayer - Brian Coxs Adventures in Space and Time - Series 1: 3. What Is Gravity?</u></p>
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