



KS4 Learning overview

Subject: Physics

Exam board: AQA

Year 10		
Term	Topics	Extra learning opportunities
Autumn 1 & 2	Electricity	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 Specific Topic resources: Common Physics Misconceptions - YouTube Circuit Construction Kit: DC - Series Circuit Parallel Circuit Ohm's Law - PhET Interactive Simulations (colorado.edu) What is electricity? - Electricity Explained - (1) - YouTube
Spring 1	Particle Model	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

Spring 2	Radioactivity	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 Specific Topic resources: Watch Chernobyl 1986 Netflix Official Site What Caused the Catastrophic Nuclear Accident in Chernobyl? - YouTube • Watch Batman Dark knight Rises • Spiderman 2 • Chain reaction 1996 Is the scientific technology regarding nuclear fusion scientific accurately in these films ? Do we Need Nuclear Energy to Stop Climate Change? - YouTube Worst Nuclear Accidents in History - YouTube Fusion Power Explained – Future or Failure - YouTube
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Summer 1 & 2	Forces	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 Specific Topic resources: Formula 1 Car Development And Production HOW IT'S MADE - YouTube BBC Documentary - Super Sub USS Submarines Ultimate Structures -National Geographic - YouTube How Gravity Shapes The Human Body With Jim Al-Khalili Gravity And Me Spark - YouTube Gravity, size and mass Physics - Wonders of Life - YouTube BBC iPlayer - Brian Cox's Adventures in Space and Time - Series 1: 3. What Is Gravity?
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