

## Wider Engagement Opportunities for AQA Physics 7407 (Y12) and 7408 (Y13)

### YEAR 12 (AQA 7407)

Autumn 1 – Measurements & Errors, Particles, Waves

Reading/Doing: The Order of Time, First Light, Einstein's Fridge, Isaac Physics

Watching: BBC Horizon – Mystery of Matter

Listening: The Infinite Monkey Cage

Trips: Science Museum

Programmes: STEM Smart, Isaac Physics

Autumn 2 – Mechanics & Energy

Reading/Doing: Six Easy Pieces, Isaac Physics Mechanics

Watching: Horizon – What Is Gravity?

Listening: DeepMind Podcasts

Trips: Royal Observatory

Programmes: She Talks Science

Spring 1 – Electricity

Reading: Electrify; Isaac Physics Circuits

Watching: Secret Life of the Electric Car

Listening: The Amp Hour

Trips: National Grid Visitor Centre

Programmes: Coursera Electronics MOOC

Spring 2 – Materials

Reading: Stuff Matters

Watching: Secrets of the Super Elements

Listening: Materialism Podcast

Trips: University Materials Labs

Programmes: WES Events

Summer 1 – Further Mechanics & Thermal

Reading: Thermodynamics: Carnot to Chaos

Watching: Double Pendulum – Veritasium

Listening: Physics Frontiers

Trips: HMS Wellington

Programmes: Engineering Summer Schools

Summer 2 – Fields & Nuclear Preparation

Reading: QED – Feynman

Watching: Forces of Nature

Listening: Thought Experiment Podcast

Trips: CERN, UKAEA

Programmes: Cambridge Physics Challenge

### YEAR 13 (AQA 7408)

Autumn 1 – Further Mechanics & Fields

Reading: Why Does  $E=mc^2$ ?

Watching: Hunt for the Ether

Listening: Oxford Physics Podcasts

Trips: National Space Centre

Autumn 2 – Fields & Capacitance

Reading: IET Electricity Booklets

Watching: Secret Life of the Motor  
Listening: The Amp Hour  
Trips: National Grid Facilities

Spring 1 – Nuclear  
Reading: Nuclear Physics VSI  
Watching: Fukushima – Inside the Meltdown  
Listening: Radiolab  
Trips: UKAEA

Spring 2 – Astrophysics  
Reading: Astrophysics for People in a Hurry  
Watching: Royal Institution Lectures  
Listening: Astronomy Cast  
Trips: Jodrell Bank

Summer 1 – Synoptic & Exams  
Reading: AQA Revision Workbook  
Watching: Physics Online  
Listening: The Learning Scientists  
Trips: CERN (optional)