

Major themes of paper 1

ANYTHING NOT LISTED MAY BE TESTED BUT NOT HEAVILY

| TOPIC | EDEXCEL DOCUMENT | REVISION SHEET |
|---|--------------------------------|--|
| Formulas | - | Term 1 Lesson 1 |
| Speed, velocity, acceleration and final speed | Movement and position | Term 1 Lessons 4 - 5 |
| Electricity | Energy and voltage in circuits | Term 2 Lessons 4 - 11 |
| Waves | Properties of waves | Term 3 Lesson 2 Revision sheet 1 |
| Conservation of energy, energy efficiency, energy transfers and Sankey diagrams | Energy transfer | Term 3 Lesson 9 - 10 |
| Heat transfer | Energy transfer | Term 1 Lesson 11 |
| Density and pressure | Density and pressure | Term 4 Lesson 2 |
| Radioactivity, nuclear equations, half life and uses of radiation | Radioactivity | Term 4 Lesson 11 – 14 (in 14 only the uses, not the risks) |
| Gravity, the universe and orbital speed | Motion in the universe | Term 2 Lesson 1 |

Not to be tested in paper 1

| TOPIC | EDEXCEL DOCUMENT | REVISION SHEET |
|---|---|--------------------------------------|
| Static electricity | Electric charge | Term 3 Lesson 1 |
| Non-renewable and renewable energy | Energy resources and electricity generation | Term 3 Lesson 14 and Term 4 Lesson 1 |
| Changing state and specific heat capacity | Change of state | Term 4 Lesson 3 and 5 |

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|---|-------------------|---|
| Magnetism | Magnetism | Term 4 Lesson 6 revision sheet 1 and the core practical sheet |
| Classifying stars and stellar evolution | Stellar evolution | Term 2 Lesson 2 |
| Red shift and the big bang | Cosmology | Term 2 Lesson 3 |

Major themes of paper 2

| TOPIC | EDEXCEL DOCUMENT | REVISION SHEET |
|---|--------------------------------------|-------------------------|
| Formulas | - | Term 1 Lesson 1 |
| Forces | Forces, movement, shape and momentum | Term 1 Lesson 2 |
| Mass, weight and gravity | Forces, movement, shape and momentum | Term 1 Lesson 3 |
| Terminal velocity | Forces, movement, shape and momentum | Term 1 Lesson 7 |
| Combining forces & the three laws of motion | Forces, movement, shape and momentum | Term 1 Lesson 9 |
| Stopping distance | Forces, movement, shape and momentum | Term 1 Lesson 10 |
| Momentum and change in momentum | Forces, movement, shape and momentum | Term 1 Lesson 11 and 12 |
| Moments | Forces, movement, shape and momentum | Term 1 Lesson 13 |
| Hooke's law | Forces, movement, shape and momentum | Term 1 Lesson 14 |
| Reflection, refraction, refractive index, Snell's law, critical angle and total internal reflection | Light and sound | Term 3 Lesson 4 - 8 |
| Changing state and specific heat capacity | Change of state | Term 4 Lesson 3 and 5 |

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| Electromagnetic induction and transformers | Electromagnetic induction | Term 4 Lesson 9 - 10 |
| Nuclear fusion and fission | Fission and fusion | Term 4 Lesson 15 |
| Red shift and the big bang | Cosmology | Term 2 Lesson 3 |

Not to be tested in paper 2

| TOPIC | EDEXCEL DOCUMENT | REVISION SHEET |
|---|---|---|
| DT and VT graphs | Movement and position | Term 1 Lesson 1 |
| Speed, acceleration and final speed | Movement and position | Term 1 Lesson 4 and 5 |
| Static electricity | Electric charge | Term 3 Lesson 1 |
| EM spectrum, uses and dangers | The electromagnetic spectrum | Term 3 Lesson 2 (revision sheet 2) and Lesson 3 |
| Conservation of energy, energy efficiency, energy transfers and Sankey diagrams | Energy transfer | Term 3 Lesson 9 - 10 |
| Heat transfer | Energy transfer | Term 1 Lesson 11 |
| Non-renewable and renewable energy | Energy resources and electricity generation | Term 3 Lesson 14 and Term 4 Lesson 1 |
| Density and pressure | Density and pressure | Term 4 Lesson 2 |
| Temperature and pressure in gases | Ideal gas molecules | Term 4 Lesson 4 |
| Magnetism and electromagnetism | Magnetism and electromagnetism | Term 4 Lesson 6 |
| Gravity, the universe and orbital speed | Motion in the universe | Term 2 Lesson 1 |
| Classifying stars and stellar evolution | Stellar evolution | Term 2 Lesson 2 |

Is there anything I can **not revise** at all?

| TOPIC | EDEXCEL DOCUMENT | REVISION SHEET |
|---|---|---|
| Static electricity | Electric charge | Term 3 Lesson 1 |
| Non-renewable and renewable energy | Energy resources and electricity generation | Term 3 Lesson 14 and Term 4 Lesson 1 |
| Magnetism | Magnetism | Term 4 Lesson 6 revision sheet 1 and the core practical sheet |
| Classifying stars and stellar evolution | Stellar evolution | Term 2 Lesson 2 |

