

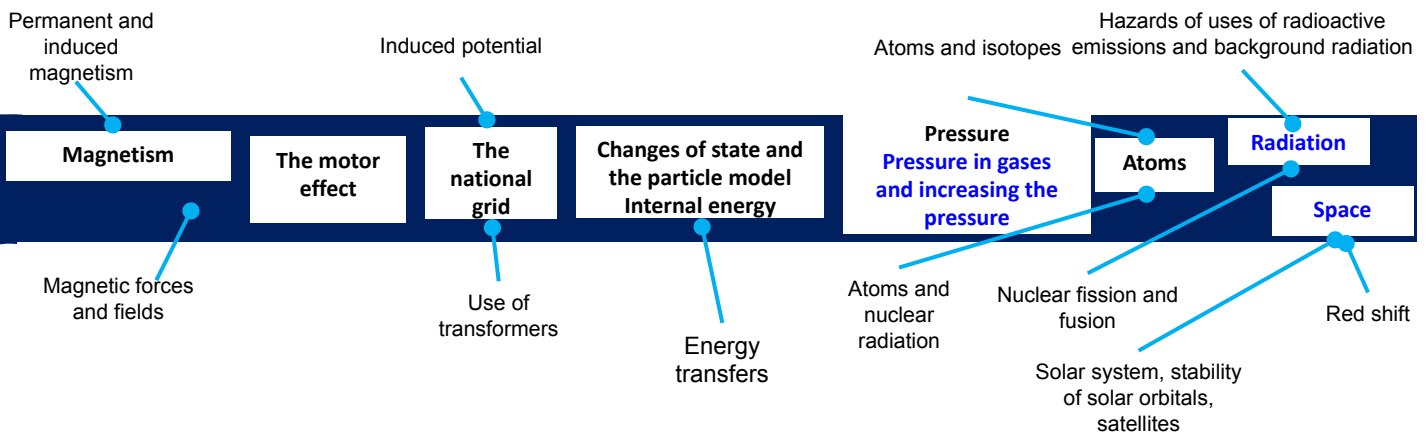


SECONDARY SCIENCE LEARNING JOURNEY: PHYSICS

REVISION AND
COMMUNICATION

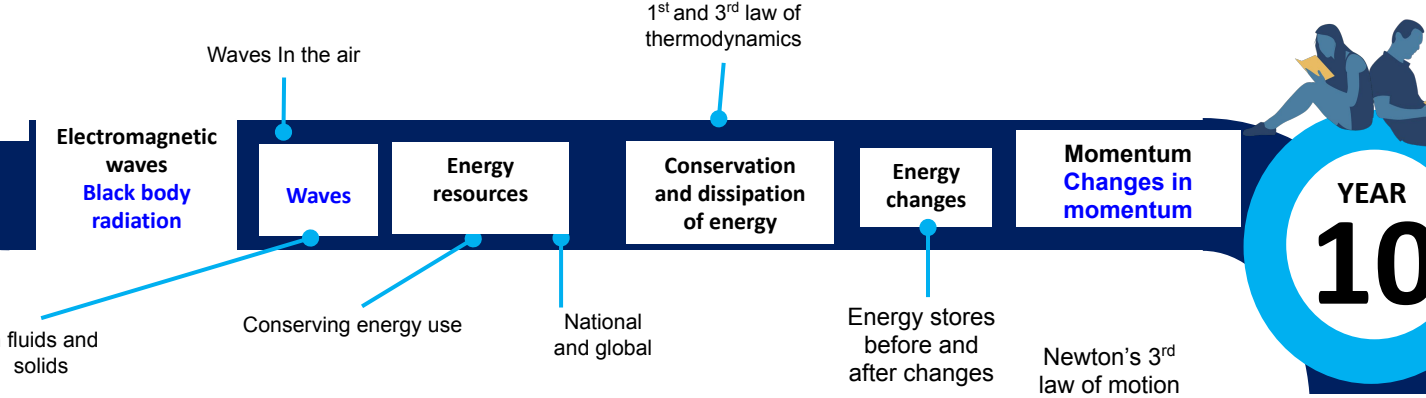
YEAR
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Current, potential difference and resistance
Series and Parallel
Domestic uses and safety
Energy Transfers
Static electricity



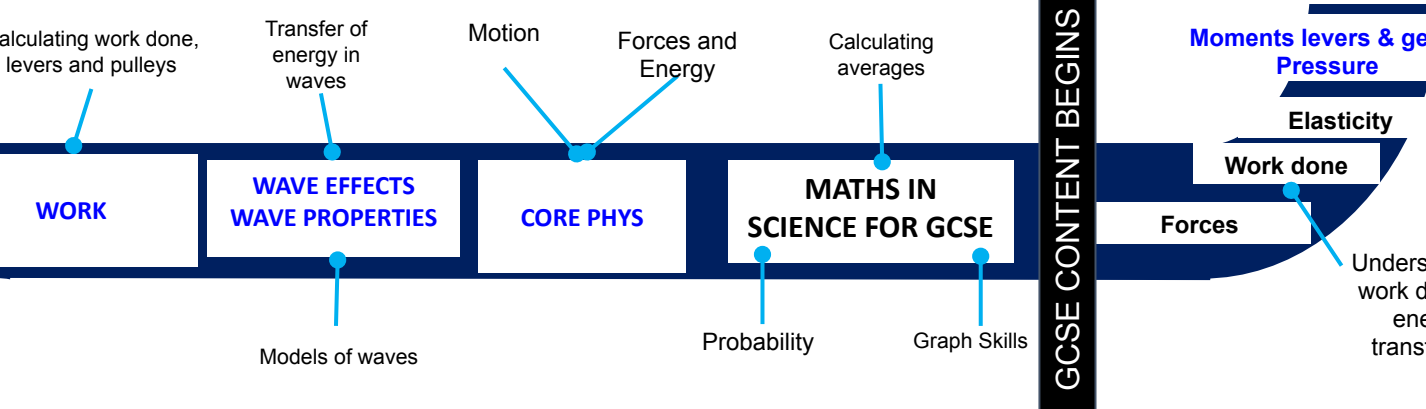
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Text in blue is GCSE separate science Physics only and will not be covered by the combined science course



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GCSE CONTENT BEGINS



YEAR
8

MAGNETISM

Permanent magnets and electromagnets

PRESSURE

Calculating pressure in solids, liquids and gases

CONTACT FORCES

Drag, friction and Hooke's law

LIGHT

Reflection and refraction

SOUND

Speed of sound and how we hear

ENERGY TRANSFER

When energy is transferred, the total is conserved, but some energy is dissipated, reducing the useful energy.

GRAVITY

Use the formula: weight (N) = mass (kg) x gravitational field strength (N/kg).

VOLTAGE

Calculate resistance using the formula: resistance (Ω) = potential difference (V) ÷ current (A).

CURRENT

Compare and explain current flow in different parts of a circuit

ENERGY COSTS

Calculate the cost of home energy usage

SPEED

Use the formula: speed = distance (m)/time (s) or distance-time graphs, to calculate speed

YEAR
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Schemes of learning are designed to ensure students progress based on their security of understanding and readiness for the next stage. STRETCH and CHALLENGE is at the heart of our curriculum

The scheme is designed with INTERLEAVING as a key element

Applying the scientific method, seeing the world analytically and using information learned to explain phenomena and make predictions

Curiosity about the world around us and an ability to communicate scientific concepts and solve problems.

Topic tests and termly assessments are designed to accurately assess knowledge and maximise progression.

