Space physics (Triple only) Magnetism and electromagnetism The start of your first **GCSE** unit **Energy** stores and systems



EXAMS

REVISION

Scientific vocabulary,

quantities, units,

symbols and

nomenclature.

- •Written exam: 1 hour 15 minutes
- Foundation and Higher Tier • 70 marks
- 16.7% of GCSE

- Paper 2
 Written exam: 1
- hour 15 minutes Foundation and **Higher Tier**
- 70 marks 16.7% of GCSE

End of Year

Assessment

engineering ● Biophysics ● Mechanics ● Civil engineering ● CAREER PATHS

Pure Physics ● Engineering ● Radiology ● Acoustic

Research Scientist • Engineer • Education • Journalism & Broadcasting • Coding • Marketing • Forensics • Politics • Science Writer • Management Consultant • Stockbroker •

SKILLS

Analysis • Evaluating • Numeracy • Abstract thinking • Memory • Literacy • Organisation • Problem solving • Future planning • Research • Logical Thinking

INTEREST We can think of how the universe operates on many different levels. We can not only describe the world around us, but the universe.

Waves and electromagnetic waves

Revision techniques Forces in motion, Velocity, acceleration

Forces, **Newton's** laws

Full paper 1



Energy Resources Electricity, circuits, static electricity

End of Year Assessment

The national grid **Domestic** electricity **Practice Half Paper**

Particle model of matter

Atoms and radiation

Practical

ASK: What is the difference between mass and weight?

Analysis & evaluation.

End of Year Assessment



ASK:

Which type of radiation is the most ionising?

Forces in motion

Forces



Revision Techniques

Electricity

- ★ Current, potential difference
- ★ Resistance in the circuit
- ★ Series and parallel circuits
- ★ The national grid

YEAR

Skills and **★** Transformers **Enrichment**

Development of scientific thinking

ASK:

radar?

How can

ultrasound

be used in



Space

- ★ Solar system
- ★ Life cycle of a star
- ★ Mass and weight
- ★ Our galaxy The ★ Sound and ultrasound milky way

End of Year Assessment



Revision Techniques



Magnets and their uses

- Attraction and repulsion
- Earths magnetic field
- Electromagnetism
- ★ How to increase the magnetic field

ASK: How can we increase the strength of an electromagnet?

Particle Model

★ Electromagnetic Spectrum

★ Three states of matter

Waves

★ Properties of waves

★ Reflection and

refraction

- ★ Melting and boiling points
- ★ Graph skills
- ★ Density equation
- ★ Gas pressure

Experimental skills and strategies.

Lab Safety and Skills





-A01

PHYSICS SKILL Demonstrating knowledge & understanding

-A02

PHYSICS SKILL
Apply knowledge of scientific ideas, enquiries & techniques



PHYSICS SKILL Interpret, evaluate, judge & make conclusions from given information