## PHYSICS CURRICULUM MAP **KS3 AQA Science** FURTHER STUDY KS4 AQA trilogy combined GESTE EVIVI Pure Physics ● Engineering ● Radiology ● Acoustic science. Triple science engineering • Biophysics • Mechanics • Civil engineering • CAREER PATHS Paper 1: 8. Space (Triple) Research Scientist • Engineer • Education • Journalism & **REVISION** Topic 1-4 Broadcasting • Coding • Marketing • Forensics • Politics • Science Writer • Management Consultant • Stockbroker • Paper 2: ASK: How do we know that SKILLS **Topics 5-7** the Farth's core is Analysis • Evaluating • Numeracy • Abstract thinking• magnetic? Memory • Literacy • Organisation • Problem solving • Future planning • Research • Logical Thinking 7. Magnetism INTEREST We can think of how the universe operates on many Δςκ. What are the properties of the different levels. We can not only describe the world different types of waves? around us, but the universe. orces 6. Waves 4. Atomic structure ASK: What happens to an object when the resultant force is zero? How do we calculate How has the What is the relationship stopping distance? model of the between potential difference atom changed? and current? Which type of radiation is the most ionising? YEAR 3. Particle model of 1. Energy 2. Electricity matter ASK. What are the energy changes when a ball How do we prevent How do waves affect the things they pass through? The start of heat loss from How can we use wave technology in the real world? How do we calculate energy changes? your first GCSE objects? **Getting GCSE** Waves Energy Ready Wave effect Work **Applied Physics** Wave properties Heat and cooling ASK: ASK: What is a magnetic Can energy be made or field? How do we calculate work done? destroyed? How do we increase What do we mean by How do levers make work easier? the strength of an renewable energy? electromagnet? How do we calculate the

cost of energy?

Energy

# **Energy transfer Energy cost**

ASK:

What is the difference between current flow in a series and parallel circuit? What is the relationship between potential difference and current?

ASK:

Waves

Sound

Light

Where do forces come from? How do we measure speed? Is the force of gravity the same on the moon?

Electromagnetics Potential difference Resistance Current

**Forces** Speed Gravity

## **Electromagnetics**

Magnets and magnetic field Electromagnets

**Forces** 

Contact forces

Pressure

Why is there so little friction on some surfaces? Why do you get put on weighing scales before you do a bungee jump? Why don't earthmovers sink?





**PHYSICS SKILL** Demonstrating knowledge & understanding

PHYSICS SKILL
Apply knowledge of scientific ideas, enquiries & techniques

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