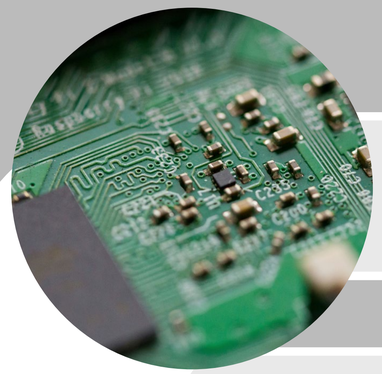
Physics KS3

King's Academy Prospect



YEAR 9

ELECTRICITY
How does electricity flow in a circuit with varying levels of resistance?

PARTICLE MODEL OF MATTER
How does the particle model explain everyday phenomena and behaviour in the states of matter?

TRANSITION

ENERGY
How do we use energy to power the world we live in?

WAVES – EFFECTS AND PROPERTIES
What happens when waves interact with different materials?

Mastery in Year 9

- Demonstrate accurate and appropriate knowledge and understanding and apply these to some familiar and unfamiliar contexts.
- Develop some logical descriptions, which includes some accurate and relevant detail.
- Use appropriate mathematical skills to perform calculations.
- Interpret qualitative and quantitative data and draw conclusions supported by some evidence
- Suggest improvements to experimental methods, and comment on the accuracy of scientific conclusions.

YEAR 8

FORCES – CONTACT FORCES AND PRESSURE
How can we calculate the effect of changing forces?

ELECTROMAGNETS – MAGNETISM AND ELECTROMAGNETISM
What are magnets and how do we use them?

ENERGY – WORK, AND HEATING AND COOLING
How is thermal energy transferred?

ENERGY – COSTS AND TRANSFERS
What are the types of energy around us and how do we interact with them?

WAVES – SOUND AND LIGHT
How do sound and light energy travel??

Mastery in Year 8

- Demonstrate relevant scientific knowledge and understanding and begin to use scientific terminology regularly.
- Perform calculations.
- Draw simple conclusions from qualitative or quantitative data.
- Make comments relating to experimental methods.

YEAR 7

FORCES – SPEED AND GRAVITY
How do forces change the motion of an object?

ELECTROMAGNETS – CIRCUITS (VOLTAGE AND CURRENT)
How are voltage, resistance and current different in series and parallel circuits??

Mastery in Year 7

- Demonstrate some relevant scientific knowledge and understanding and begin to use scientific terminology regularly.
- Perform some basic calculations.
- Draw simple conclusions from qualitative or quantitative data.
- Make basic comments relating to experimental methods.

ASPIRE • BELIEVE • ACHIEVE