

## KS3 Curriculum Requirements

### Motion and Forces

- Speed and the quantitative relationship between average speed, distance and time (speed = distance  $\div$  time).
- The representation of a journey on a distance-time graph.
- Non-contact forces: gravity forces acting at a distance on Earth and in space, forces between magnets, and forces due to static electricity.

### Space Physics

- Gravity force, weight = mass x gravitational field strength (g), on Earth  $g = 10 \text{ N/kg}$ , different on other planets and stars; gravity forces between Earth and Moon, and between Earth and Sun (qualitative only).
- Our Sun as a star, other stars in our galaxy, other galaxies.
- The seasons and the Earth's tilt, day length at different times of the year, in different hemispheres.
- The lightyear as a unit of astronomical distance.