



Eden Park Primary School Knowledge Organiser



Prior Knowledge

- Compare how things move on different surfaces
- Notice that some forces need contact between two objects, but magnetic forces can act at a distance
- Observe how magnets attract or repel each other and attract some materials and not others
- Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials
- Describe magnets as having two poles and predict whether two magnets will attract or repel each other, depending on which poles are facing.

The Powerful Knowledge we will take away from this science topic: -Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.

- Identify the effects of air resistance, water resistance and friction, that act between moving surfaces.
- Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.

Word	Meaning
Mechanisms	A system of parts working together.
Resistance	The opposition of a force or current.
Air resistance	Air pushes back on objects
Levers	Simple machine with rigid beam and fulcrum
Streamlined	Air moves more easily around
Drag forces	Caused between solid object and air/fluid through which it is travelling.
Pulleys	Used to lift heavy objects. Made by looping rope over one or more wheels.
Transference of force	Force of attraction or repulsion
Motion	A change in position in reference to a place

Investigation

Water bottle rockets

Balloon cars/races

Save an egg parachute

Paper spinners

Working scientifically

Take precise measurements using standard units.

Record data and results.

With support, present findings from enquiries orally and in writing.

With prompting, identify that not all results may be trustworthy.

Suggest how evidence can support conclusions.

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