

Key Vocabulary

Air resistance A force that is caused by air with the force acting in the opposite direction to an object moving through the air

Force -A push or pull upon an object resulting from its interaction with another object

Friction resistance of motion when one object rubs against another

Water resistance - A force that is caused by water with the force acting in the opposite direction to an object moving through the water

Fair Test when you only change one variable

Variable -

Gravity -The force that attracts a body towards the centre of the earth Prediction

rediction

Evaluation

Results

Mass - The weight measured by an objects acceleration under a given force or by the force exerted on it by gravity

Pull force -To draw or haul towards oneself or itself, in a particular direction Push force -To move something in a specific way by exerting force

Key Knowledge

- The surface in which a vehicle travels on will affect the speed this force is called friction
- Different vehicles will travel at a variety of speeds on the same surface
- When forces are balanced there is no movement
- There are many forces acting upon a vehicle at any time

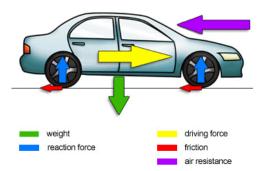
Enquiry Skills

In this unit the pupils will:

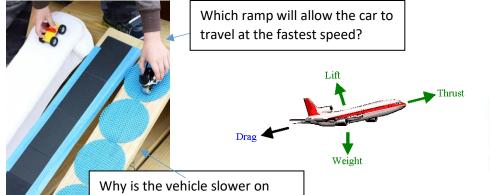
- Compare how different things move and group them
- Raise questions to investigate
- Carry our tests to find out how things move on different surfaces.
- Gather and record data to find answers to their questions
- Try to explain results using scientific reasoning

some of the ramps?

- Make predictions
- Set up simple fair tests



Trains, Planes & Automobiles Kingfishers: Forces









Balanced Forces



Unbalanced Forces