Forces Knowledge Mat

What should I already know?

• Know what a force is and be able to explain that a push and pull are types of forces. • That when forces are applied to an object they allow them to move or stop moving. • The strength of the force determines how far and fast an object moves. • Friction is the resistance of motion when there is contact between two surfaces • The force that causes objects to move downwards towards the ground is gravity. • That magnets have poles, and that opposite poles attract, while similar poles repel.

Subject Specific Vocabulary

Acceleration	an increase in speed
Air resistance	a force which resists motion through air
Data	bits of information you have gathered about something you are investigating
Deceleration	a decrease in speed
Drag	a force which resists motion through a fluid, a fluid being anything that can flow e.g. liquids, gases
Evidence	information or measurements you use to help you come to a conclusion
Friction	a force which resists the motion of objects sliding over each other
Force	something which will affect either the movement or shape of an object
Gravity	attraction between physical objects, easily noticeable when one of the objects is massive, such as the Earth
Motion	a move or change in position
Variables	something which could change in value, such as time or temperature
Water resistance	a force which resists motion through water
Weight	the force on an object due to gravity

Key Knowledge