

Force

Chapter 3: Force · Topic 1

Key Concept

Forces can make a stationary object move, a moving object stop, or change the direction or speed of a moving object.

There are different types of forces, like gravitational force (pulling objects toward Earth) and frictional force (resisting motion between surfaces).

Force is measured in units called newtons, named after the scientist Sir Isaac Newton.

Understanding forces helps us explain everyday phenomena, like why objects fall, why we can walk, and how machines work.

Quick Revision Notes

- A force is a push or pull.
- Forces change motion, shape or direction.
- Gravitational force pulls objects toward Earth.
- Frictional force resists motion between surfaces.
- Force is measured in newtons.
- Newtons are named after Isaac Newton.
- Forces explain why objects fall.
- Forces explain how we walk and machines work.

Practice Questions

- 1 Push and pull an object, noting the force applied.
- 2 Discuss an example of gravitational force.
- 3 Discuss an example of frictional force.
- 4 Research who Isaac Newton was.
- 5 Explain why we don't float away from Earth.
- 6 Discuss how friction helps us walk.