

# Motion and Types of Motion

Chapter 12: Motion and Types of Motion · Topic 1

---

## Key Concept

Rectilinear motion occurs when an object moves in a straight line, like a car travelling on a straight road.

Circular motion occurs when an object moves along a circular path, like a fan blade or a satellite orbiting Earth.

Periodic motion occurs when an object repeats its motion at regular intervals, like a pendulum swinging back and forth.

Understanding these types of motion helps us describe and analyse the movement of objects in the world around us.

## Quick Revision Notes

- Motion: change in position over time.
- Rectilinear motion: straight line movement.
- Example: a car on a straight road.
- Circular motion: movement along a circular path.
- Example: a fan blade, satellite orbit.
- Periodic motion: repeats at regular intervals.
- Example: a pendulum swinging.
- These types describe object movement.

## Practice Questions

- 1 Give an example of rectilinear motion.
- 2 Give an example of circular motion.
- 3 Give an example of periodic motion.
- 4 Observe a pendulum and describe its motion.
- 5 Discuss the motion of a ceiling fan.
- 6 Classify the motion of a moving train.