

CLASS 9

SCIENCE

REVISION NOTES

## Class 9 Science Chapter 6 How Forces Affect Motion – Revision Notes

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Quick revision notes for Class 9 Science Chapter 6 (How Forces Affect Motion). These Class 9 Science Chapter 6 notes are ideal for quick revision just before exams.

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- Balanced vs Unbalanced Forces
- Friction
- Newton's Laws
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Quick revision notes for Class 9 Science Chapter 6 (How Forces Affect Motion). These Class 9 Science Chapter 6 notes are ideal for quick revision just before exams.

## Balanced vs Unbalanced Forces

Balanced: cancel out, no change in motion.

Unbalanced: don't cancel, change speed/direction.

## Friction

Opposes relative motion between surfaces.

Reduce: lubricants, smoother surfaces, rollers/wheels.

Increase: rough surfaces (e.g. tyre treads).

## Newton's Laws

**1st law (Inertia):** object stays at rest/uniform motion unless acted on by unbalanced force.

**2nd law:**  $F = ma$ ; rate of change of momentum  $\propto$  force.

**3rd law:** every action has an equal and opposite reaction, on two different bodies.

## One-Line Summary

Motion changes only under unbalanced forces, friction opposes relative motion between surfaces, and Newton's three laws together explain why objects resist changes in motion (inertia), how force relates to acceleration ( $F=ma$ ), and why forces always come in equal-and-opposite pairs acting on different objects.

**See also:** [Chapter 1](#) | [Chapter 2](#) | [Chapter 3](#) | [Chapter 4](#) | [Chapter 5](#) | [Chapter 6](#)

**Practice more:** [Chapter 1](#) | [Chapter 2](#) | [Chapter 3](#) | [Chapter 4](#) | [Chapter 5](#) | [Chapter 6](#)

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