

CLASS 9

SCIENCE

REVISION NOTES

Class 9 Science Chapter 4 Describing Motion Around Us – Revision Notes

Quick revision notes for Class 9 Science Chapter 4 (Describing Motion Around Us). These Class 9 Science Chapter 4 notes are ideal for quick revision just before exams.

Contents

- Distance vs Displacement
- Speed vs Velocity
- Acceleration
- Graphs
- Equations of Motion
- Uniform Circular Motion
- One-Line Summary

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Distance vs Displacement

Distance: total path length, scalar, always positive.

Displacement: shortest straight-line distance with direction, vector, can be zero.

Speed vs Velocity

Speed = distance/time (scalar).

Velocity = displacement/time (vector).

Acceleration

Rate of change of velocity.

Positive: speeding up; Negative (retardation): slowing down; Zero: uniform velocity.

Graphs

Position-time graph slope = velocity.

Velocity-time graph slope = acceleration; area under graph = displacement.

Equations of Motion

$$v = u + at$$

$$s = ut + \frac{1}{2}at^2$$

$$v^2 = u^2 + 2as$$

Uniform Circular Motion

Constant speed, continuously changing direction → accelerated motion, directed toward centre.

One-Line Summary

Motion is described using distance/displacement, speed/velocity, and acceleration, visualised through position-time and velocity-time graphs, and summarised in three equations of motion; even constant-speed

circular motion counts as accelerated motion because direction keeps changing.

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

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

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