

Physical Science Grade 12 Notes

Your Name

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1 Mechanics

1.1 Motion in One Dimension

Key Formulas:

$$v = \frac{\Delta x}{\Delta t}$$
$$a = \frac{\Delta v}{\Delta t}$$
$$v_f = v_i + at$$
$$\Delta x = v_i t + \frac{1}{2}at^2$$
$$v_f^2 = v_i^2 + 2a\Delta x$$

Worked Example:

- A car accelerates from rest at 3 m/s^2 for 5 s . Find its final velocity and displacement.

Solution:

$$v_f = 0 + (3)(5) = 15 \text{ m/s}$$
$$\Delta x = 0 + \frac{1}{2}(3)(5)^2 = 37.5 \text{ m}$$

Diagram: Velocity-Time Graph

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Joacim Rocklöv



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