

# Engineering Science N4

## Summary

### Module 1: Kinematics

#### Unit 1-1 Relative Velocity

##### Definitions

- 1) **Scalars:** A quantity that consists of magnitude only. Examples are time, mass, distance, speed, energy, work done, etc.
- 2) **Vectors:** A quantity consisting of magnitude and direction. Displacement, weight, velocity, momentum, acceleration, etc.
- 3) **Mass:** A quantity of matter. A scalar quantity because it has no direction
- 4) **Weight:** A force with which an object is attracted to the earth. Measured in Newtons.
- 5) **Speed:** Distance travelled during a time interval. Scalar because of no direction.

$$\text{Speed} = \frac{\text{distance}(\text{s})}{\text{time elapsed} (\text{s})}$$

- 6) **Velocity:** Displacement per unit time or rate of displacement and is a vector (direction)

$$\text{Velocity} (v) = \frac{\text{displacement} (\Delta s)}{\text{time elapsed} (\Delta t)}$$

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**SA Dillow**

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