described using equations or graphs in order to solve it.

Example 1: The motion of a basketball as it leaves a player's hand and passes through the net can be modelled using the equation $h = 2 + 1.1x - 0.1x^2$, where h m is the height of the basketball above the ground and x m is the horizontal distance travelled.

a. Find the height of the basketball:

i. When it is released

$x = 0$, $h = 2 + 0 + 0$
Height = 2m

ii. At a horizontal distance of 6 m

$x = 6$, $h = 2 + 1.1 \times 6 - 0.1 \times (6)^2$
Height = 2.6 m

b. Use the model to predict the height of the basketball when it is at a horizontal distance of 11m from the player.

$x = 11$, $h = 2 + 1.1 \times 11 - 0.1 \times (11)^2$
Height = -4.9

c. Comment on the validity of this prediction.

Height cannot be negative so the model is not valid when $x = 11$ m.

Modelling assumptions

Modelling assumptions can simplify a problem and allow you to analyse the real-life situation using known mathematical techniques. These assumptions will affect the calculations in a particular problem.

Some common models and modelling assumptions:

Model	Modelling assumptions
Smooth surface	Assume there is no friction between the surface and any object on it
Rough surface	Objects in contact with the surface experience a frictional force if they are moving or are acted on by a force
Air resistance – the friction experienced as an object moves through the air	Usually modelled as being negligible
Gravity – force of attraction between all objects. Acceleration due to gravity is denoted by g, where the value of g is $9.8\ ms^{-2}$	• Assume that all objects with mass are attracted towards the Earth • Earth's gravity is uniform and

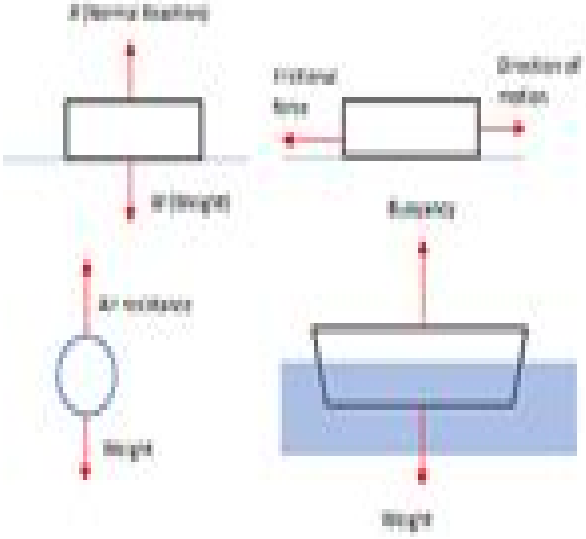
These **base** SI units are most commonly used in mechanics.

Quantity	Unit	Symbol
Mass	Kilogram	kg
Length/displacement	Metre	m
Time	Seconds	s

These **derived** units are compound units built from the base units.

Quantity	Unit	Symbol
Speed/velocity	Metres per second	ms^{-1}
Acceleration	Metres per second per second	ms^{-2}
Weight/force	Newtons	N ($= kg\ ms^{-2}$)

Some of the common force diagrams that you will encounter in mechanics:



More on each of the above forces:

- The **weight** (or gravitational force) of an object acts vertically downwards
- The **normal reaction** is the force acting perpendicular to a surface when an object is in contact with the surface.
- The **friction** is a force which opposes the motion between two rough surfaces
- **Buoyancy** is the upward force on a body that allows it to float or rise when submerged in a liquid.
- **Air resistance** opposes motion of an object falling towards the ground.

4 km = 4 × 1000 = 4000 m

b. 0.32 grams
0.32 g = 0.32 ÷ 1000 = 3.2 × 10^{-4} kg

c. 5.1 × 10^4 km h^{-1}
5.1 × 10^4 km h^{-1} = 5.1 × 10^4 × 1000
= 5.1 × 10^7 m h^{-1}
5.1 × 10^7 ÷ (60 × 60) = 1.4 × 10^4 m s^{-1}

Working with vectors

Vector quantities are quantities which have both magnitude and direction. Vector quantities can be positive or negative. Examples are:

Quantity	Description	Unit
Displacement	Distance in a particular direction	Metres (m)
Velocity	Rate of change of displacement	Metres per second (ms^{-1})
Acceleration	Rate of change of velocity	Metres per second per second (ms^{-2})

Scalar quantities are quantities which have magnitude only. Scalar quantities are always positive. Examples are:

Quantity	Description	Unit
Distance	Measure of length	Metres (m)
Speed	Measure of how quickly a body moves	Metres per second (ms^{-1})
Time	Measure of ongoing events taking place	Second (s)
Mass	Measure of the quantity of matter contained in an object	Kilogram (kg)

You can also describe vectors using i-j notation, where i and j are the unit vectors in the positive x and y directions.

Example 3: The velocity of a particle is given by $v = 8i + 3j\ ms^{-1}$. Find:

a. The speed of the particle

speed = $|v| = \sqrt{(i^2 + j^2)} = \sqrt{73}$
= 8.5 ms^{-1}

b. The angle the direction of motion of the particle makes with the unit vector i

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