

Density

Ch.32

Density : Density is mass divided by volume.
(kg/m^3)

$$\frac{m}{D \times V}$$

"monkey's drink vodka"

Motion

Ch.33

Speed : Speed is distance divided by time. (m/s)

$$\frac{D}{S \times T}$$

"dad's silly triangle"

Velocity : Velocity is speed in a given direction.
(m/s)

Acceleration : Change in velocity divided by time.
(m/s^2)

$$a = \frac{V_2 - V_1}{t}$$

Ch.34

Force

Force: Force causes acceleration . (N)

Weight: Force due to gravity (N)

Friction: A force that slows something . (N)

Hooke's Law: The extension of a spring
is directly proportional to the force causing it.

Ch.35

Moment

Moment: The moment of a force is - force
times the distance from the fulcrum (Nm)

$$M = F \times d$$

Lever: A lever a rigid body that is
free to rotate about a fixed point
called a fulcrum.