

CAIE AS Level Physics (9702) – Paper 4

Motion in a Circle:

- **Radian:** the angle subtended at the centre of the circle by an arc of length equal to the radius of the circle
- **Angular displacement:** the angle through which an object moves through a circle

$$\text{angle (in radians)} = \frac{\text{arc length}}{\text{radius}}$$

$$\theta = \frac{s}{r}$$
- **Angular velocity:** the rate of change of the angular position of an object as it moves along a curved path

$$\text{Angular speed} = \frac{\text{angular displacement}}{\text{time taken}}$$

$$\omega = \frac{\Delta\theta}{\Delta t}$$
- **Period:** the time taken by the body to complete the circular path once

$$\omega = \frac{2\pi}{T}$$
- Relating angular velocity and linear velocity:
 - The speed of an object travelling around a circle depends on its angular speed (ω) and its distance from the centre
 $\text{speed} = \text{angular speed} \times \text{radius}$

$$v = \omega \times r$$

Circular Motion:

- A body moving in a circle at a constant speed changes velocity since its direction changes. Thus, it is accelerating and hence experiences a force.
- **Centripetal force:** resultant force acting on an object moving in a circle, always directed towards the centre of the circle perpendicular to the velocity of the object

$$F = \frac{mv^2}{r} = mr\omega^2$$
- **Centripetal acceleration:** derived by equating Newton's 2nd law and centripetal force

$$a = \frac{v^2}{r} \text{ or } a = r\omega^2$$

Gravitational Fields:

- **Gravitational field:** an example of a field of force
- **Gravitational field strength:** gravitational force per unit mass

Representing a Gravitational Field:

- Gravitational field lines show the direction and strength of the gravitational force
- For an isolated point mass, the gravitational field is radial in shape with the mass at the centre
- A higher density of field lines a region of stronger field
- The gravitational force gets weaker as you go further away.

Newton's Law of Gravitation:

- The gravitational force between two point masses is proportional to the product of their masses & inversely proportional to the square of their separation

$$F = \frac{Gm_1m_2}{r^2}$$

- The gravitational force between two masses is independent of the medium separating the mass and is always an attractive force.
- A satellite in a geostationary orbit remains at the same point above the Earth's surface, with an orbital period of 24 hours, orbiting from west to east, directly above the Equator.

Gravitational Field Strength:

- How strong or weak a gravitational field is.
- By equating $W = mg$ and Newton's Law of Gravitation:

$$mg = \frac{Gm_1m_2}{r^2}$$

$$\therefore g = \frac{GM}{r^2}$$

Gravitational Potential:

- The work done per unit mass in bringing a mass from infinity to the point

$$\phi = -\frac{GM}{r}$$

- The negative sign is because:
 - Gravitational force is always attractive
 - Gravitational potential reduces to zero at infinity
 - Gravitational potential decreases in direction of field



- **Gravitational potential energy** of a mass at a point in the gravitational field of another mass M , is the work done in bringing that mass from infinity to that point

$$E_p = m\phi = -\frac{GM}{r}m$$

- The gravitational potential energy difference between two points is the work done in moving a mass from one point to another

$$\Delta E_p = m\phi_{\text{final}} - m\phi_{\text{initial}}$$

Temperature:

- Temperature does not measure the amount of thermal energy in a body:
 - Two objects of different masses made of the same material at the same temperature would have different amount of heat
 - When a substance melts or boils, heat is input but there is not temperature energy

Thermal Equilibrium:

- Thermal energy is transferred from a region of higher temperature to a region of lower temperature
- **Thermal equilibrium:** Regions of equal temperature are in thermal equilibrium. When two or more objects in contact have the same temperature so there is no net flow of energy between them.

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