

# DIGITAL PRODUCT

**CAIE IGCSE PHYSICS**

Conduction	Convection	Radiation
Thermal conduction travels as particles	Fluid conduction: Transported via particles present convection flow	Reflected Radiation and Electromagnetic waves. All objects emit and absorb radiation
Through movement and vibration of molecules/vibrates for molecules	Fluid with more energy moves above less energy to create convection current	It depends on temperature, colour, surface area and texture
Ex: Metal Rod	Ex: Radiation of Heaters	Ex: Vacuum of space

**Radiation: Colour and Texture**

- Dull black surfaces are good emitters and absorbers of heat
- Shiny white surfaces are good reflectors (bad emitters and absorbers) of heat

**Radiation: Temperature and Surface Area**

Temperature is the flow area is Energy emitted

### 3. # Sound

- Longitudinal waves produced by vibrating sources are known as sound waves. Sound waves require a medium to be transmitted (such as air)
- Compressions: high pressure, rarefactions: low pressure
- Loudness depends on the frequency, amplitude and distance from the source
- The louder a sound wave is, the greater its amplitude
- The higher the pitch of a sound wave, the higher its frequency
- An echo is a reflection of sound waves
- (Echo Return) is a technique that (or transmitted) back (echo of (sound) the hit)
- When a wave is a fairly significant distance from a solid wall and record the time taken for the wave (produced sound) to be heard, then use speed = distance/time

**Relations Frequency**

speed (speed) = distance / time

**CAIE IGCSE PHYSICS**

## 1. Motions, Forces and Energy

### 1.1. Physical quantities and measurement techniques

**Using measurements (equipment)**

- Length: Measuring Cylinder
- Volume: (measured for one specific measurement)
- Time: Clocks, Digital Timers (measured to 0.1s or better)
- Length: Ruler, multi graduated (ruler)
- Mass: Top pan balance, precision of 0.1g

**Vectors and Scalars**

Scalar: Has magnitude only  
e.g. distance, speed, time, mass, energy and temperature

Vector: Has magnitude and direction  
e.g. force, weight, velocity, acceleration, momentum, electric field strength and gravitational field strength

**1.2. Motion**

**Speed** is defined as the distance travelled per unit time.

Use the equation:

$$s = vt \quad \text{where}$$

- $s$  is speed
- $v$  is distance
- $t$  is time

**Velocity** is defined as the speed in a given direction.

**Distance & Speed Time Graphs**

**Distance-time graphs**  $s \propto \text{Distance}$   $t \propto \text{Time}$

**Speed-time graphs**

**Acceleration**

Acceleration is defined as the change in velocity per unit of time.

$$a = \frac{v - u}{t} \quad \text{where}$$

- $a$  is acceleration
- $v$  is final velocity
- $u$  is initial velocity
- $t$  is change in time

**Falling objects**

- Acceleration of free fall (for an object near to the surface of the Earth) is constant and is approximately  $9.8 \text{ m/s}^2$
- At the beginning of the paper, the instructions will tell you to use  $10 \text{ m/s}^2$  or  $9.8 \text{ m/s}^2$ . They should not be very important.

**Terminal Velocity**

## IGCSE PHYSICS REVISION NOTES (THEORY)



# Igcse Physics Revision Notes 2015

**Michael Nelkon**



## **Igcse Physics Revision Notes 2015:**

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