

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 (dull emitter and absorber) 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
- Sound travels slower in the vacuum, liquids are slower, and gases are the slowest.
- 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) to 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

Wave speed = frequency x wavelength

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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: Measuring tape (graduated to mm)
- Temperature: Thermometer
- Volume: Measuring Length, Width, Height
- Measuring volume by displacement
- 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:

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

$$s = \text{speed}$$

$$v = \text{distance}$$

$$t = \text{time}$$

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.

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

$$a = \text{acceleration}$$

$$v = \text{final velocity}$$

$$u = \text{initial velocity}$$

$$t = \text{change in time}$$

Falling objects

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

Terminal Velocity

IGCSE PHYSICS REVISION NOTES (THEORY)



Igcse Physics Revision Notes 2015

Jin-Ying Zhang



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