

IGCSE EDEXCEL PHYSICS PRESENTATION

Unit 4 - Energy Resources and Energy Transfers

Conduction

- Transfer of thermal (heat) energy through a substance by atomic vibration within the substance, without the movement of the substance itself.
- In a hot part of a substance, the particles have more kinetic energy. The more energetic particles transfer some of their energy to the particles near to them. These therefore gain energy and then pass energy on to particles near to them. The energy transfer goes on throughout the substance.
- Metals are good thermal conductors because their atoms are packed close together and they have large number of free electrons.

Calculations using Work, GPE and KE

- Whenever any work is done, energy gets transferred from one store to another
- Energy transferred
- Work done is equal to the GPE the

Convection

- Transfer of heat through fluids by the upward movement of warmer, less dense regions of fluids.
- 1. When a liquid or gas (fluid) is heated,
- 2. The fluid expands and becomes less dense.
- 3. The warmer, less dense fluid rises and cooler more dense fluid sinks.
- 4. The circular movement of the fluid is called convection current.
- 5. Heat is transferred through the fluid by convection current.

Radiation

- To

Transfer thermal (heat) energy by infrared (IR) radiation. Dark surfaces are good absorbers and good emitters of IR radiation. Light surfaces are bad absorbers and bad emitters. The energy radiated by a hot object depends on its surface texture and its temperature - at lower temperatures, the form of infrared radiation is called long wave infrared. At higher temperatures, the metal object radiates short wave infrared.

Edexcel Igcse Physics May 2014

Brian Arnold



Edexcel Igcse Physics May 2014:

Edexcel IGCSE Physics Brian Arnold, 2009 Written specifically for Edexcel's new IGCSE Physics from 2009 qualification in a clear and engaging style that students will find easy to understand This book includes a wide range of activities and exercises for self study as well as examination style questions and summaries to aid revision Publisher's description

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