Topic: Energy and Insolation

Aim: How is heat energy transferred between places / substances?

recall notes 1. How does heat flow Heat energy will flow from higher temperatures through a field (heat sources) to lower temperatures (heat sinks). or system? 2. What are the three **CONDUCTION** methods of heat energy transfer? heat transfer by direct contact of molecules mainly solids especially metals II. CONVECTION heat transfer by molecules flowing due to density differences liquids and gases heated air / liquid rises because it is less dense III. **RADIATION** (page 14 ESRT – electromagnetic spectrum) transfer by electromagnetic energy waves no medium necessary (no substance needed to travel through) - can travel through a vacuum (outer space)