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| THERMAL ENERGY and HEAT – Study notesComplete the following sentences and tasks to make a set of study notes on Thermal energy and Heat |
| **DEFINITIONS:**Click to writeenergy (NOT heat energy) is the energy possessed by an object because of movement of it's particles. Click to write is a way of measuring the level of thermal energy is an object.Click to write is the movement (transfer) of thermal energy from warmer objects to cooler objects.Click to writeis the transfer of the heat through a solid object.Substances that conduct heat readily are called Click to write , while substances that don't conduct heat readily are called Click to write .Click to writeis the transfer of heat energy caused by the movement of a fluid.Click to writeis the transfer of energy by infrared waves. | **THIS MEANS THAT:**The hotter the object is (the higher it's temperature), the Click enter text the particles in it are moving.Heat can be transferred in three distinct ways - Click to write , Click to write , and Click to write.Convection Click to write due to warmer air Click to write and cooler air Click to write is a common mechanism by which thermal energy is transferred in the air. Click to write breezes are created by this. Click to write objects (we can't see through) absorb radiant heat which hits them. Click to write coloured objects absorb more radiant energy and get Click to write than reflective or Click to write colours. | Fill in the venn diagramClick to write Click to write**RADIATION****CONVECTION****CONDUCTION**Click to writeClick to write |
| **WORDS TO USE****Thermal**insulatorsTemperature Conduction Opaquelight **Conduction** hotter | Heat radiation rising Faster convectionconductors**Convection** Sea falling currents **Radiation** Dark  | **Conduction –** Click to describe what is happening in the diagram  | **Convection -** Click to describe what is happening in the diagram | **Radiation -** Click to describe what is happening in the diagram  |