

# Activity 1



## ESL/ELD Stage 1 + Stage 2: Grade 7 Science Strand 3: Heat (Vol.1)

Teacher led discussion



### Learning About Heat (page 2)

What is heat?

*Thermal energy is the heat stored in a thing.  
Heat is thermal energy that is transferred from one thing to another.*

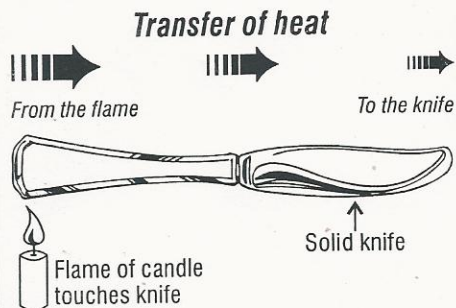
<p><b>Very much heat stored in Magma</b></p> <p>Magma at 1200°C</p> <p>Active volcano</p> <p>Magma</p>	<p><b>Much heat stored in Hot Coffee</b></p> <p>Hot coffee at 80°C</p>	<p><b>Little heat stored in Tap Water</b></p> <p>Tap water at 20°C</p>	<p><b>Very little heat stored in Ice Cubes</b></p> <p>Ice cubes at 0°C</p>
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How is heat transferred from one object to another?

*Heat is transferred by conduction, convection and radiation.*

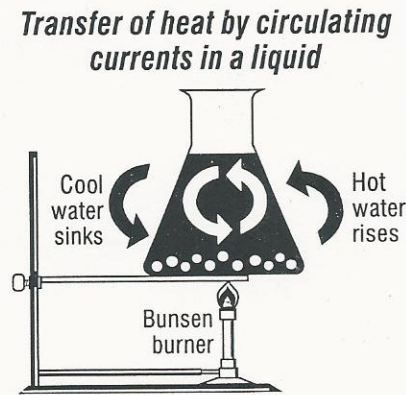
### Conduction

Heat transferred through solids is called conduction.

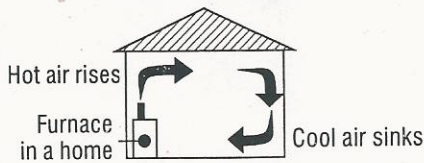


### Convection

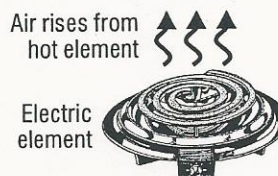
Heat transferred through liquids and gases by circulating currents is called convection.



**Transfer of heat by circulating currents in a gas**



**Transfer of heat by circulating currents in a gas**



### Radiation

Heat transferred through a vacuum (e.g., outer space, inside a light bulb) is called radiation.

