

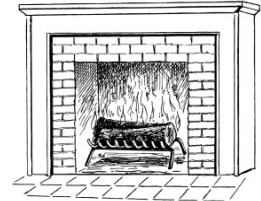
Intermediate Science 7
Unit 1: Temperature and Heat
Topic 9: Heat Technologies



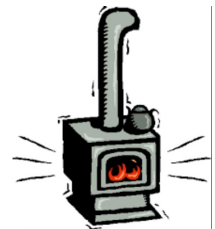
Student Name _____

Heat Technologies refers to devices used to generate, transfer, control or remove heat.

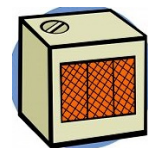
1. Open Fireplace Radiant heat from the fire and convection currents in the air spread the heat.



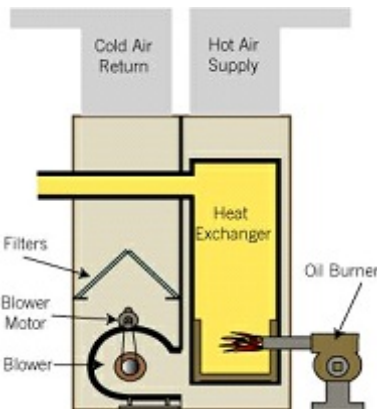

2. Wood Stove : Efficient radiators due to the black colour.



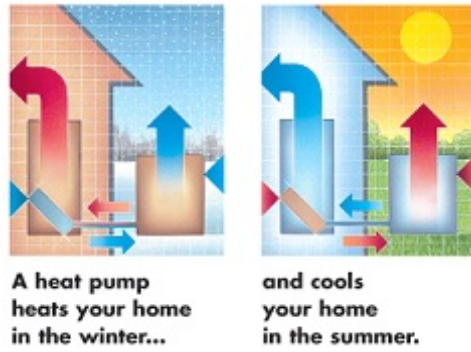
3. Electric Heaters: electrical device that converts electric current to heat.



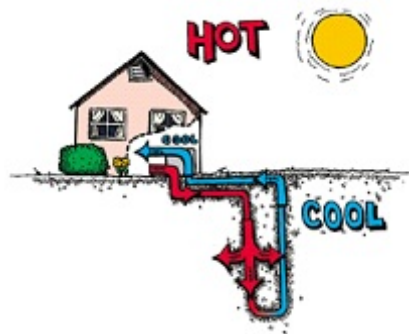
4. Oil Furnace:

<p>Air is drawn into the furnace and heated and fans would blow the warm air through the ducts into the rooms.</p> 	<p>Water carried in a system of pipes can be used instead of air. Hot Water Radiation</p> 
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5. Air to Air Heat Pump: Can be used to cool the home in the summer and heat the home in the winter. Heat is exchanged with the outside air.



6. Geothermal: Heat is exchanged with the ground. In the summer, heat is pumped into the ground and in winter it is pumped up from the ground.



7. Solar: Converts light energy to electrical energy.



What are some ways that we use heat?

- Cook food
- Warm buildings
- Dry clothes

Student Activity

You have to create a for sale sign for one of the heating technologies mentioned above. Your for sale sign will include:

- When it was invented
- How it works (This is very important)
- What are some advantages and disadvantages of this device (This is very important)
- Where it is used.