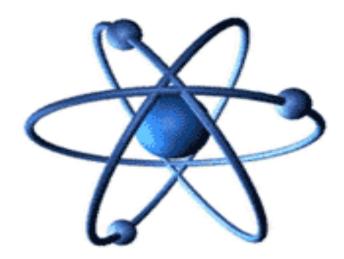
Thermal Energy and Heat

Thermometers



Wednesday, October 8, 2014



Thermometers

There are many different types of , and they all have a specific use or function:





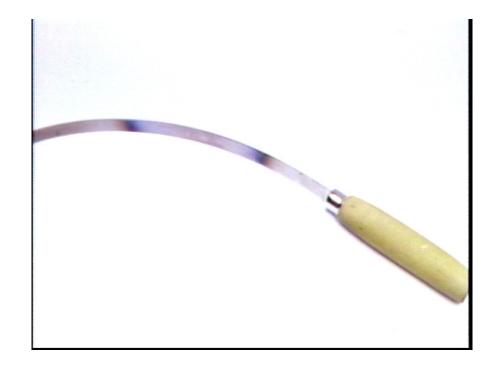


<u>Thermocouple</u> – a thermometer that uses electricity to measure temperature. It is used to measure very high temperatures





<u>Bimetallic Strip</u> – two different metals bonded together that expand and contract in different amounts.



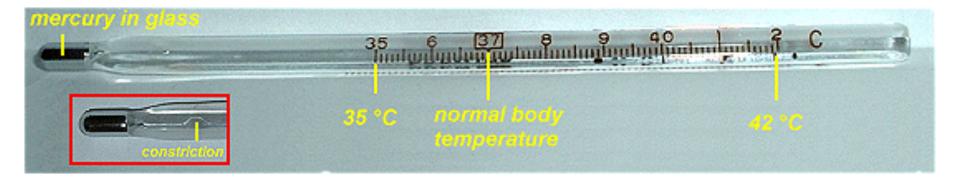


<u>Bimetallic Strip</u> – two different metals bonded together that expand and contract in different amounts. They are used in thermostats to control room temperature





<u>Clinical thermometer</u> – used to measure human body temperatures – they have limited scales so they are more accurate and you can tell your exact temperature.





They also have new, computerized thermometers and chemical/heat thermometers that work in seconds.

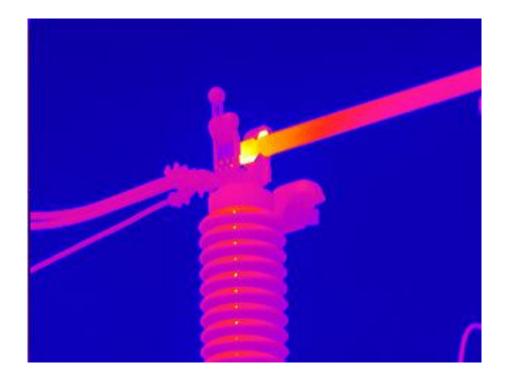






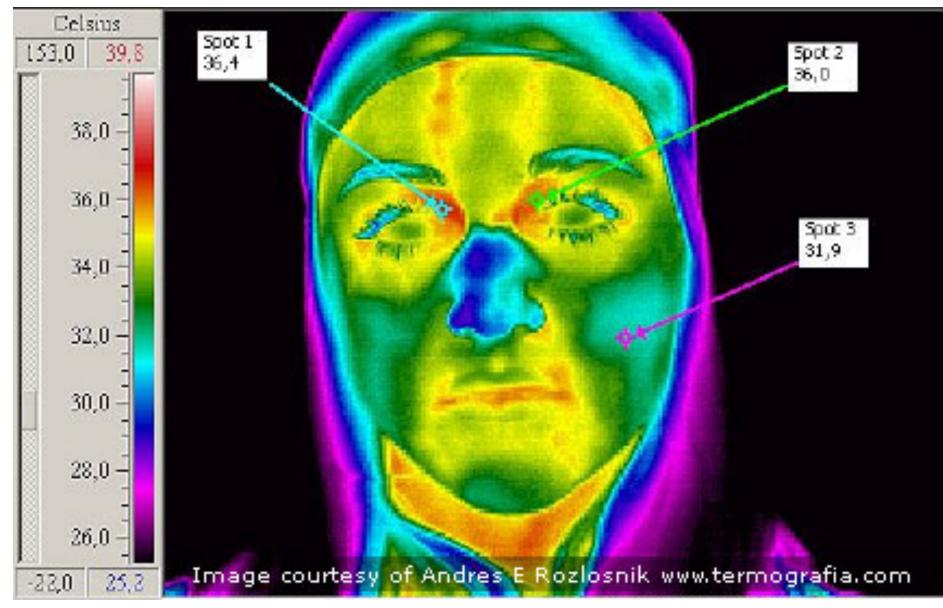
Infrared thermogram is a special camera that records different temperatures as different colours.





They record how much radiation is given off by an object. They "see" energy as different colours







Laboratory Thermometer – A thermometer that ranges from minus 20 to 110 degrees Celsius which is a useful range for many different experiments. They are usually mercury or alcohol filled.





Choose the appropriate thermometer to measure the temperature of the following things:

- your pet dog
- melted steel
- heat loss from a house
- your room temperature
- boiling water