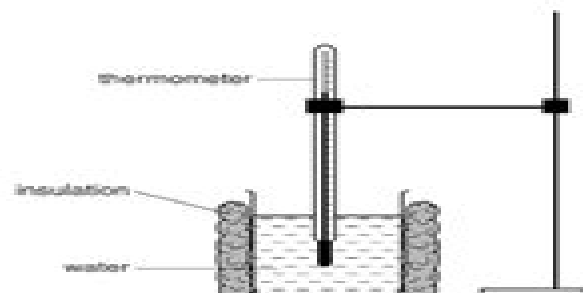
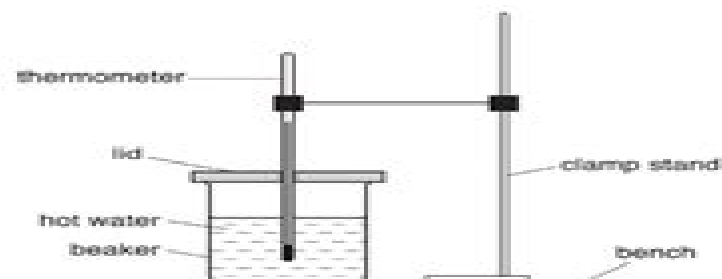


Cooling water experiment



1. **Precautions to ensure that the temperature reading is reliable:**
 - stir before reading
 - keep thermometer at same depth
 - perpendicular viewing of thermometer /with reading at eye level
 - wait until thermometer has stopped rising (at the start)
 - thermometer in middle of water/not touching beaker
2. **Ways to reduce the rate of loss of thermal energy from the beaker**
 - Insulate
 - Lid
 - Lower starting temperature
 - Higher room temperature
 - Smaller volume of water
 - Smaller surface area
3. **Examples of insulators**
 - Lid
 - Rubber
 - Wool
 - Polystyrene
 - Card (as lid)



4. **Controlled variables**
 - room temperature/stated environmental condition
 - starting/initial temperature of the (hot) water
 - volume/mass/amount of water
 - same beaker
 - total time for experiment
5. **To increase the rate of cooling of the water**
 - higher starting temperature / use hotter water
 - use of metal can instead of beaker / metal bench
 - lower room temperature / cold water bath
 - use of a fan
 - container with a greater surface area / larger beaker

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