

AP Chemistry Daily Videos

6.3 Heat Transfer and Thermal Equilibrium

Daily Video #1

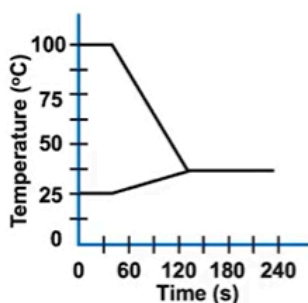
Remember: Temperature is a measure of the average kinetic energy of the particles in the sample.

1. What happens to the particles when a hotter object comes into contact with a colder object?

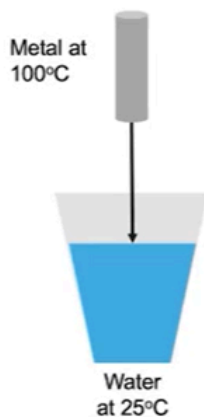
2. What is thermal equilibrium?

3. Pause the video at 4:20, attempt the problem, then evaluate how you did and identify any errors.

Heat Transfer Experiment



Source: Dena K. Leggett



An experiment was designed to monitor the flow of heat from a hot piece of metal to water.

- What is the change in temperature for metal?
- What time is thermal equilibrium achieved? Justify your answer.
- Does the average speed of the metal particles increase or decrease with time? Use particle level reasoning to justify your answer.

4. What are the takeaways?