

OPEN RESPONSE #4: Heat and Heat Transfer

In a room at 21°C , 60 mL of water is poured into each of three cups. The water in cup 1 is at 15°C , the water in cup 2 is at 25°C , and the water in cup 3 is at 45°C .

- a. Describe what happens to the temperature of the water in **each** cup over a one-hour period.
- b. Describe what happens to the energy present in **each** cup over the one-hour period and explain why.
- c. Explain how equilibrium is reached in the cups.