

OPEN RESPONSE #5: Heat and Heat Transfer

In an experiment, liquid 1 is at room temperature (21°C) and liquid 2 has been heated until it is warmer than room temperature. A student takes equal amounts of liquid 1 and liquid 2 and mixes them together in a beaker.

- a. Compare the initial temperatures of liquid 1 and liquid 2 with the temperature of the mixture in the beaker at each of the following times:
  - 5 minutes after mixing
  - 2 hours after mixing
- b. Describe the transfer of heat energy between the two liquids in the beaker.
- c. Identify one other possible heat energy transfer in this experiment.