

Name:

Period:

Energy Affects Matter: Test

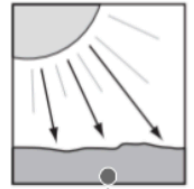
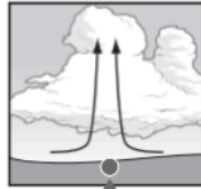
Learning Target: I CAN PLAN AND CARRY OUT AN INVESTIGATION BY ADDING OR REMOVING HEAT ENERGY AND EXPLAIN ITS EFFECT ON MATTER AS WELL AS DESIGN AN OBJECT, TOOL, OR PROCESS TO MINIMIZE OR MAXIMIZE HEAT ENERGY TRANSFER (6.2.3 & 6.2.4).

Task 1: What is the flow of energy in the following example?



- A. The energy is flowing from the ice to the hand.
- B. The energy is flowing from the hand to the ice.

Task 2: Label the following images based on the type of heat transfer shown.



Conduction

Convection

Radiation

Task 3: Students investigate the heat capacities of different samples of water. The students measure the amount of energy, in joules, needed to raise the temperature of the water in three different beakers. Predict the amount of heat energy needed to heat the water by drawing a line from the amount to the appropriate beaker.

418 joules

836 joules

209 joules

