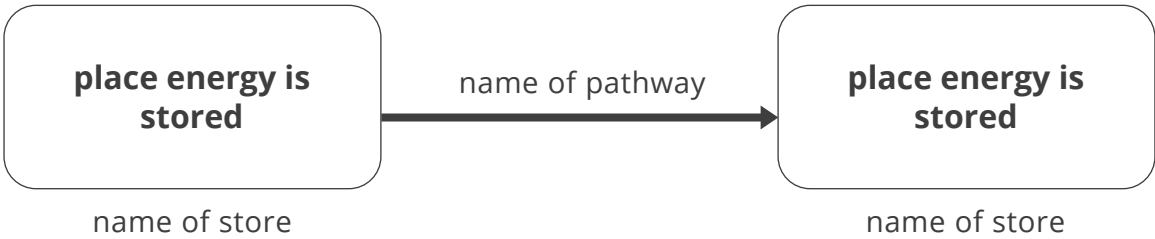


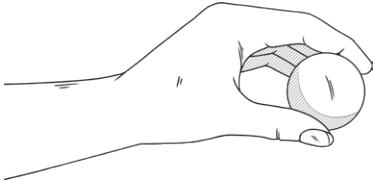
Energy Transfer Diagrams **Answers**

The diagram below shows a template for one type of energy transfer diagram.




Draw an energy transfer diagram for each of the systems shown below.

System 1: A bouncy ball is dropped from a height.



Start Point: The ball is held stationary above the ground.



End Point: The ball is compressed as it hits the floor.

ball rasied in Earth's
gravitational field


work done mechanically

compressed ball


gravitational potential

elastic potential

System 2: Two magnets are pulled a short distance apart by a person.



Start Point: The north and south poles of the magnets are in contact.



End Point: The north and south poles have been separated.

person

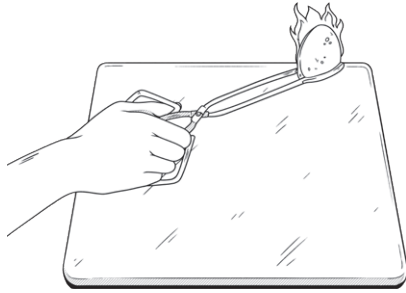
work done mechanically

attracting poles
pulled apart

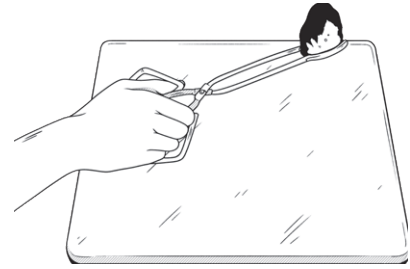
chemical

magnetic

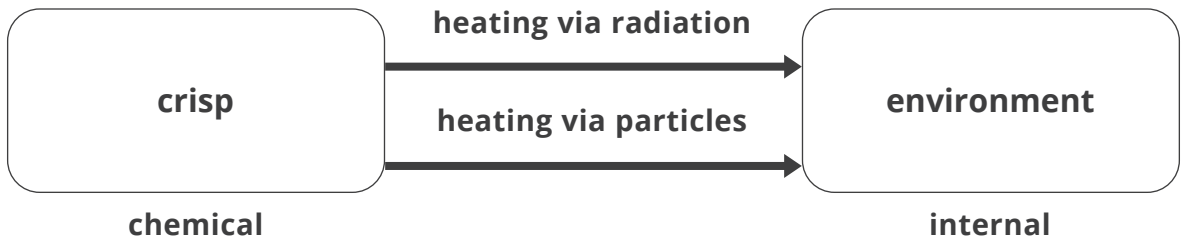
System 3: A crisp is set on fire.



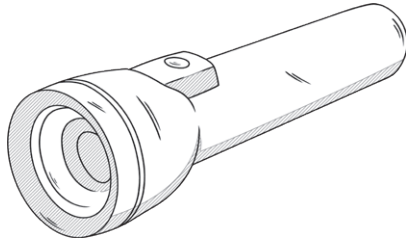
Start Point: The crisp has just been lit.



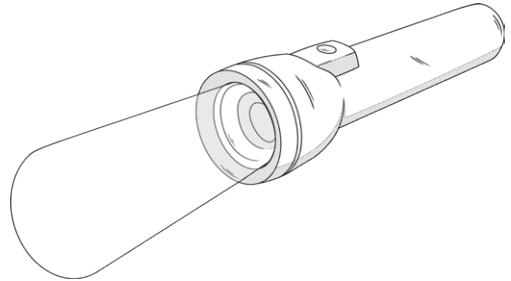
End Point: The crisp has burnt and the flame has gone out.



System 4: A battery-powered torch is switched on.



Start Point: The torch is off.



End Point: The torch has been on for five minutes.

