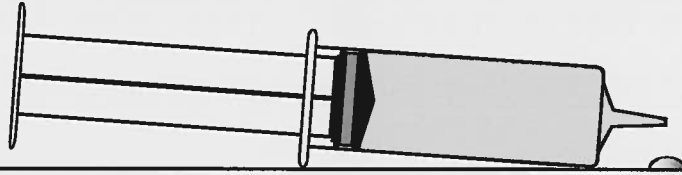


RESPONSE SHEET—KINETIC ENERGY

Bess filled a syringe with water and left it by the sink in the sunshine. Ten minutes later she saw a little puddle of water under the syringe tip. Bess said,

This syringe must be broken. It's leaking.

But it wasn't broken.

What do you think caused the little puddle of water to appear under the syringe tip?

NOTE: Use the words *particle* and *kinetic energy* in your explanation.

The water was warmed by the sunshine. The heat increased the kinetic energy of the water particles in the syringe. The particles pushed on one another harder, pushing them farther apart. The volume of water increased (expanded), causing the drop of water to be pushed out of the syringe.