

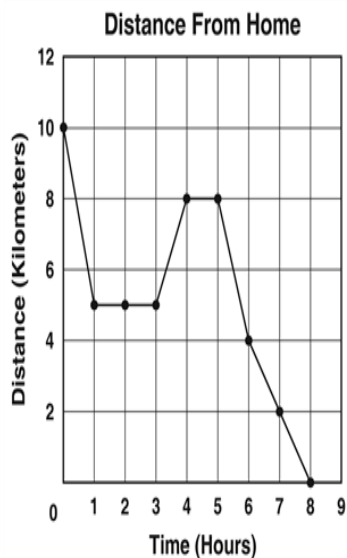
Name: \_\_\_\_\_

Question	Monday (12.3.2018)	Tuesday (12.4.2018)	Wednesday (12.5.2018)	Thursday (12.6.2018)
1	<p>An engineer is using a plastic material that resists heating up. Which is the engineer <b>most likely</b> creating?</p> <p>a. a handle for a pan, because it will keep a person's hand from burning.</p> <p>b. a stove, because it uses materials that need to heat to high temperatures.</p> <p>c. a light bulb, because it uses electricity to heat the inside wire and create light.</p> <p>d. a toaster, because the coils inside a toaster need to radiate heat to warm the food.</p>	<p>Which <b>best</b> explains why a full glass bottle of water should not be stored in a freezer?</p> <p>a. The temperature of the freezer will make the water too cold.</p> <p>b. Water expands when it freezes, which could break the bottle.</p> <p>c. Water contracts when it freezes, which could break the bottle.</p> <p>d. The temperature of the freezer will not make the water cold enough.</p>	<p>Which statement <b>best</b> explains why engineers leave space between sections when building a bridge?</p> <p>a. A bridge without spaces will expand during a hot day and possibly crack.</p> <p>b. A bridge without spaces will expand during a cold day and possibly crack.</p> <p>c. A bridge without spaces will contract during a hot day and possibly crack.</p> <p>d. A bridge without spaces will contract during a cold day and possibly crack.</p>	<p>Which <b>best</b> explains why many car motor parts are made from metal instead of plastic?</p> <p>a. Metal can withstand heat better than most plastics.</p> <p>b. Plastic is more expensive than metal.</p> <p>c. Plastic is less flexible than metal.</p> <p>d. Metals reflect the heat cars give off.</p>
2	<p>Grandma places a hot spoon into a container of ice cream. How does this help her scoop out the ice cream?</p> <p>a. The coolness from the ice cream is conducted to the spoon making it easier to scoop out.</p> <p>b. The coolness from the ice cream is radiated to the spoon making it easier to scoop out.</p> <p>c. The warmth of the spoon is conducted to the ice cream making it easier to scoop out.</p> <p>d. The warmth of the spoon is radiated to the ice cream making it easier to scoop out.</p>	<p>What <b>best</b> explains why hot air rises above a dark parking lot during the day?</p> <p>a. The dark parking lot heats up the air. The hot air rises by conduction.</p> <p>b. The dark parking lot heats up the air. The hot air rises by convection.</p> <p>c. The dark parking lot heats up the air. The hot air rises by insulation.</p> <p>d. The dark parking lot heats up the air. The hot air rises by radiation.</p>	<p>While camping, a girl wants to roast marshmallows by a campfire. Which <b>best</b> explains how this process happens?</p> <p>a. The warmth of the fire is conducted into the marshmallow.</p> <p>b. The warmth of the fire is radiated into the marshmallow.</p> <p>c. The coolness of the marshmallow is conducted into the fire.</p> <p>d. The coolness of the marshmallow is radiated into the fire.</p>	<p>A family built a wood fire in the fireplace. The next day, they noticed there was no wood left in the fireplace, only ashes. Which <b>best</b> explains this?</p> <p>a. Wood is separated from ashes as it burns.</p> <p>b. Wood becomes a new substance as it burns.</p> <p>c. Ashes have the same properties as wood.</p> <p>d. Ashes are the same substance as wood.</p>

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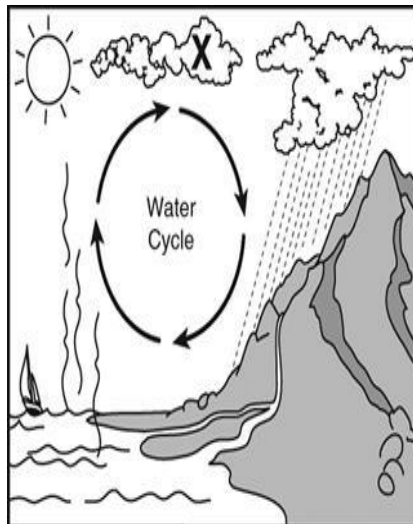
A girl is taking a long ride on her bicycle. The graph shows how far she is from home at different times during her ride.



What was the girl doing from hour 3 to hour 4 of the trip?

- a. moving closer to home.
- b. riding at a constant speed.
- c. riding up a long hill.
- d. moving farther from home.

Which process in the water cycle is shown by the "X" in the diagram below?



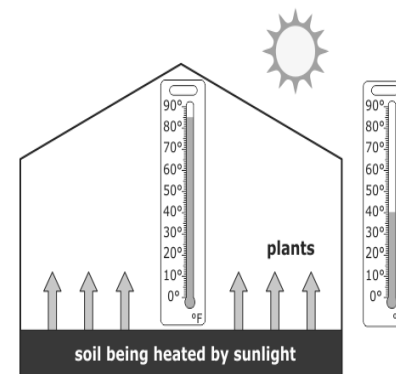
- a. condensation
- b. evaporation
- c. precipitation
- d. run-off

A scientist was sorting a mixture that weighed 80 grams. After sorting the mixture's contents into four groups, the scientist weighed each group and got the results in the table below.

Group	Weight
1	6 g
2	22 g
3	37 g
4	?

What is the **most likely** weight of group 4?

- a. 6 g
- b. 15 g
- c. 28 g
- d. 43 g



Which **best** explains why the temperature inside the greenhouse is higher than the temperature outside the greenhouse?

- a. The sun's rays radiate heat into the greenhouse, and then the warmed air is convected inside the greenhouse.
- b. The sun's rays conduct heat into the greenhouse, and then the warmed air is radiated inside the greenhouse.
- c. The warm air outside passes into the greenhouse by convection, and then the warm air is conducted inside the greenhouse.
- d. The cool air outside passes into the greenhouse by radiation, and then the cool air is conducted inside the greenhouse.

Number Correct (Out of 3)

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