

Rating Guide
ELS-Beaver Cluster

- 1 [1] Allow 1 credit for a correct external structure *and* a correct explanation. Acceptable responses include, but are not limited to:

Example of a 1-credit response:

Structure	Explanation
second eyelid	– helps to see under water
thick, oily fur	– keeps it warm – helps it float in water
tail	– helps to swim – helps it balance – scares away predators
webbed feet	– helps it swim
teeth	– cut wood to make dams – cut plant material to eat

- 2 [1] Allow 1 credit for *D*.

- 3 [1] Allow 1 credit for *C*.

- 4 [1] Allow 1 credit. Acceptable responses include, but are not limited to:

- Both populations showed an increase followed by a decrease, but it happened twice in California.
- Beaver populations changed more quickly in California than in Massachusetts over the same time span.

- 5 [1] Allow 1 credit for *C*.

- 6 [1] Allow 1 credit for an environmental factor *and* a reasonable claim about the effect of this factor on a population. Acceptable responses include, but are not limited to:

food	<ul style="list-style-type: none"> – Not enough food will cause a population to decrease. – If all the food is used up, a population will decrease. – If there is enough food for all the beavers, they can have more babies and a population will increase.
water	<ul style="list-style-type: none"> – If the streams are too low, the beavers can't keep their dams. – Drought/lack of water would cause beavers to leave areas. – Low streams mean the beavers can't build their dams easily, decreasing a population.
predators	<ul style="list-style-type: none"> – More predators will kill beavers, decreasing a population.

**Item Alignment
ELS Beaver Cluster**

Item Number	Performance Expectation
1	4-LS1-1
2	4-LS1-1
3	3-LS4-3
4	3-LS4-3
5	3-5-ETS1-2
6	3-LS4-4

**Rating Guide
ELS-Bowling Cluster**

- 1 [1] Allow 1 credit. Acceptable responses include, but are not limited to:
- The motion energy decreases from photograph *A* to *B* because as the ball speed decreases, so does the amount of energy.
 - The motion energy decreases as the ball rolls to a slower speed.
 - The energy decreases because the speed of the ball went from 21 mph to 17 mph.
 - The energy decreases because an object possesses less energy of motion when it is moving slower.

2 [1] Allow 1 credit for *C*.

3 [1] Allow 1 credit for *D*.

- 4 [1] Allow 1 credit. Acceptable responses include, but are not limited to:
- motion energy to sound energy
 - kinetic energy to sound energy
 - motion/kinetic energy to heat/thermal energy

5 [1] Allow 1 credit for only two check marks in table, as shown below.

	Less	More	Same
Strength of Force	✓		

	Different	Same
Direction of Force		✓

Item Alignment
ELS-Bowling Cluster

Item Number	Performance Expectation
1	4-PS3-1
2	4-PS3-3
3	3-PS2-1
4	4-PS3-2
5	3-PS2-1

Rating Guide
ELS-Climate Cluster

- 1 [1] Allow 1 credit for *B*.
- 2 [1] Allow 1 credit for *C*.
- 3 [1] Allow 1 credit. Acceptable responses include, but are not limited to:
- Rio de Janeiro is closer to the equator than New York City.
 - New York City is farther from the equator than Rio de Janeiro.

Note: Do *not* allow credit for “Rio de Janeiro is farther south than New York City” because it does not describe a distance relative to the equator. Do *not* allow credit for any response that simply uses the data from the table to state that the temperatures in New York City are cooler than the temperatures in Rio de Janeiro.

- 4 [1] Allow 1 credit. Acceptable responses include, but are not limited to:
- Both locations receive less than 10 inches of precipitation each year.
 - Both locations are very dry.
 - Both locations could be classified as deserts because of the small amount of precipitation they receive.
- 5 [1] Allow 1 credit for *D*.

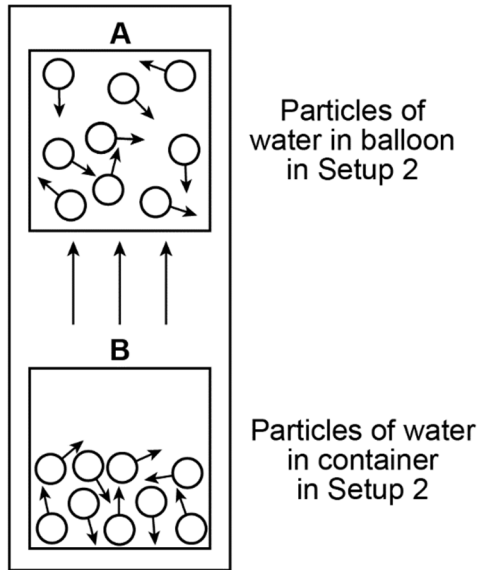
Item Alignment
ELS-Climate Cluster

Item Number	Performance Expectation
1	3-ESS2-2
2	3-ESS2-2
3	3-ESS2-2
4	3-ESS2-2
5	3-ESS2-2

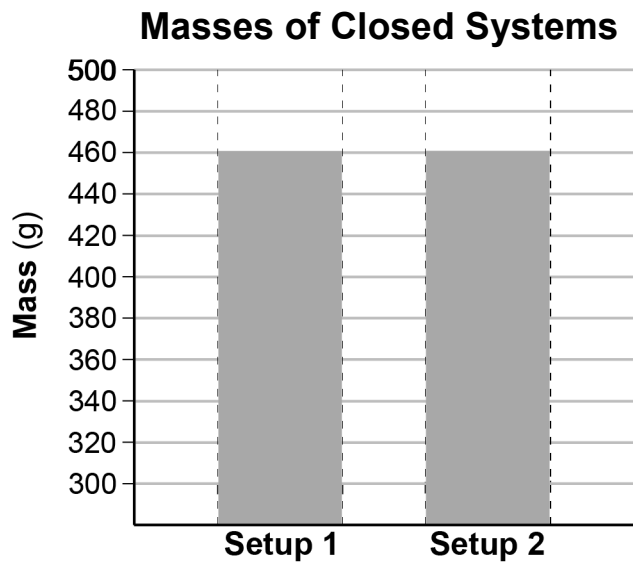
Rating Guide
ELS-Energy and Matter in a Closed System Cluster

- 1 [1] Allow 1 credit for *C*.
- 2 [1] Allow 1 credit for *both* water particle models placed in the locations shown below.

Example of a 1 credit response:



- 3 [1] Allow 1 credit for *both* bars reaching a height of 460 grams.



Note: Allow credit if the bars are not shaded but reach a height of 460 grams.

Sample-ELS-Energy and Matter in a Closed System Cluster

- 4 [1] Allow 1 credit for *both* condensation and an acceptable description. Acceptable responses include, but are not limited to:
- It will cause clouds to form in the sky.
 - It could cause fog to form.
 - Dew can form on grass/outside surfaces when condensation occurs.
- 5 [1] Allow 1 credit for C.

Item Alignment
ELS-Energy and Matter Cluster

Item Number	Performance Expectation
1	4-PS3-2
2	5-PS1-1
3	5-PS1-2
4	3-ESS2-3
5	5-PS2-1