#### 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	<ul> <li>helps to see under water</li> </ul>	
thick, oily fur	- keeps it warm	
	<ul><li>helps it float in water</li><li>helps to swim</li></ul>	
tail	- helps it balance	
	<ul> <li>scares away predators</li> </ul>	
webbed feet	– helps it swim	
teeth	<ul><li>cut wood to make dams</li><li>cut plant material to eat</li></ul>	

- **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

### 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.



# 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	

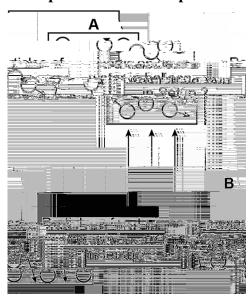
# Rating Guide ELS-Climate Cluster

1	[1]	Allow 1 credit for $B$ .				
2	[1]	llow 1 credit for $C$ .				
3	[1]	Allow 1 credit. Acceptable responses include, but are not limited to:				
		<ul> <li>Rio de Janeiro is closer to the equator than New York City.</li> <li>New York City is farther from the equator than Rio de Janeiro.</li> </ul>				
		<b>Note:</b> Do <i>not</i> allow credit for "Rio de Janeiro is farther south than New York City"				

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

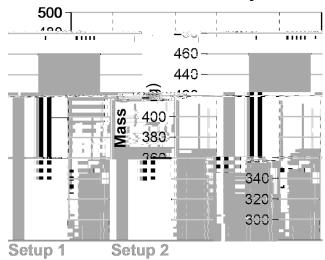
- **1** [1] Allow 1 credit for *C*.
- 2 [1] Allow 1 credit for both water particle models placed in the locations shown below.

#### Example of a 1 credit response:



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

## **Masses of Closed Systems**



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

5	[1] Allow 1 credit for C.						

4 [1] Allow 1 credit for both condensation and an acceptable description. Acceptable

— Dew can form on grass/outside surfaces when condensation occurs.

responses include, but are not limited to:

— It could cause fog to form.

— It will cause clouds to form in the sky.