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 $\equiv$ 

- 1) Mark your answers on these pages.
- 2) Use blank areas for data charts and word answers.

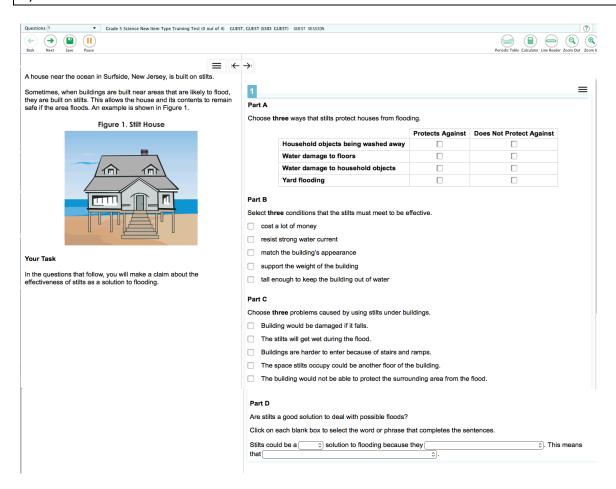
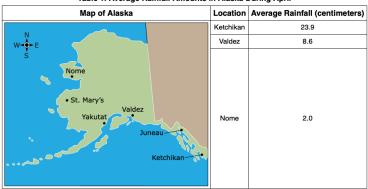


Table 1 shows six locations in Alaska. It also shows how much rain three of the locations received in April.

Table 1. Average Rainfall Amounts in Alaska During April Map of Alaska



Rank the other three locations by the amount of rain they received in April. Click on the blank boxes to make your selections.

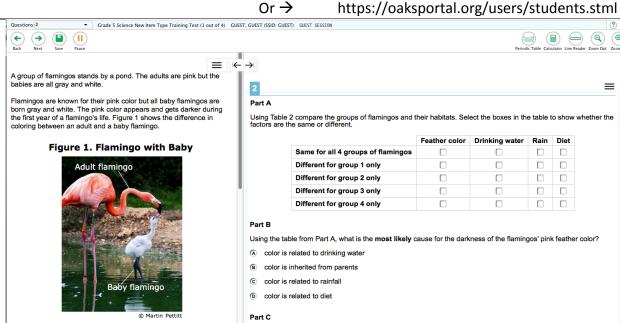


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🗘. This means that traits



Flamingos in the Caribbean are

Table 1. Four Flamingo Groups

Group Description

Group Wild, adult flamingos in the Caribbean (see top panel in Fig 2).

Group Adult flamingos born at the London Zoo (see bottom panel in Fig 2).

The parents of group 1 (wild flamingos).

The parents of group 2 (when they were caught in the wild).

A flamingo's feathers can be many different shades of pink. Wild, adult flamingos in the Caribbean are dark pink. Adult flamingos at the

London Zoo are light pink. This difference in color can be seen in Figure 2.

Table 2 shows characteristics of flamingos in each of the groups.

## Table 2. Characteristics and Habitats of Flamingo Groups

Group	Feather Color	Rain	Drinking Water	Diet	
Group 1	Dark pink	Rain falls all year	Drinking water is freely available	Saltwater plants and shrimp	
Group 2	Light pink	Rain falls all year	Drinking water is freely available	Fish and plants that are not part of the flamingos' diet in the wild	
Group 3	Dark pink	Rain fell all year	Drinking water was freely available	Saltwater plants and shrimp	
Group 4	Dark pink	Rain fell all year	Drinking water was freely available	Saltwater plants and shrimp	

## Your Task

Group 4

In the questions that follow, you will create an explanation for the difference in color between the flamingos in the Caribbean and the flamingos at the London Zoo.

## Part D

What could be done to change the coloring of the flamingos in the London Zoo to a darker pink?

Click on the boxes and choose the words and phrases to make a statement that **best** explains why there is a difference in flamingo feather color between Group 1 and Group 2.

pink because

- give the flamingos lots of drinking water
- move the flamingos inside so that they are away from rainfall
- © feed the flamingos more of the shrimp they would eat in the wild
- nothing, since coloring is inherited from parents

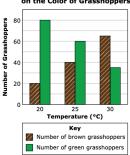


Table 1 describes four groups of flamingos.



Young grasshoppers are placed in different boxes. Each box is set to one of three temperatures: 20°C, 25°C, or 30°C. The grasshoppers are raised in the boxes. Once the grasshoppers are grown, the numbers of brown grasshoppers and green grasshoppers are counted. The results are shown in Graph 1.

Graph 1. The Effect of Temperature on the Color of Grasshoppers



 $\label{thm:continuous} Which statement \textbf{best} \ \text{supports the claim that temperature affects the color of the grasshoppers?}$ 

- (A) The number of green grasshoppers in each box is different.
- ⓐ There are 20 brown grasshoppers and 80 green grasshoppers in the 20°C box.
- © There is the same number of brown grasshoppers and green grasshoppers in each box.
- The number of brown grasshoppers in the boxes increased as the temperature increased

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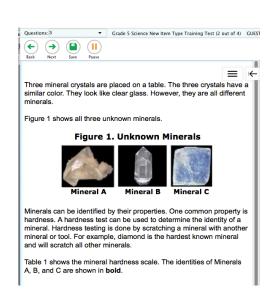
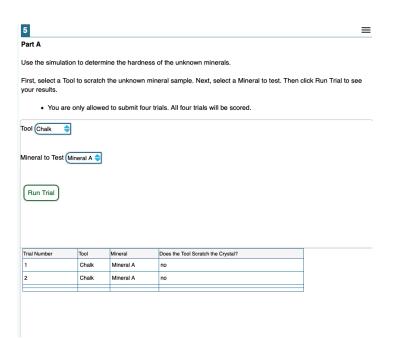


Table 1. Hardness Scale
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Hardness	Material	
1	Talc	
1.5	Chalk	
2	Halite	
2.5	Fingemail	
3	Calcite	
3.5	Penny	
4	Fluorite	
5	Apatite	
5.5	Steel Nail	
6	Orthoclase	
6.5	Pyrite	
7	Quartz	
7.5	Garnet	
8	Topaz	
10	Diamond	

\*Materials in italics are tools, not minerals.

In the questions that follow, you will investigate the hardness of the unknown minerals to identify which mineral is halite, which is calcite, and which is quartz.

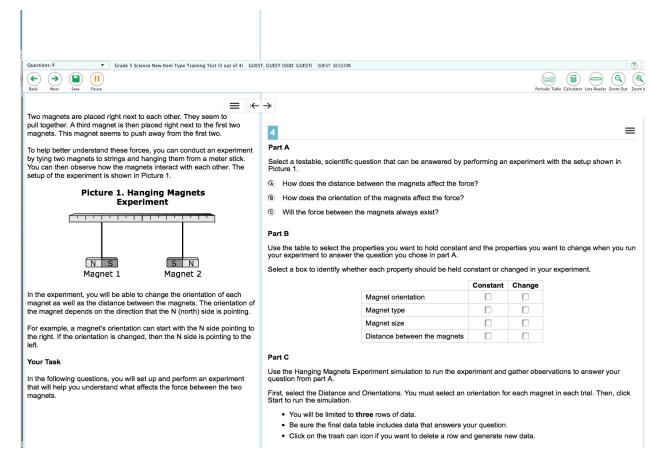


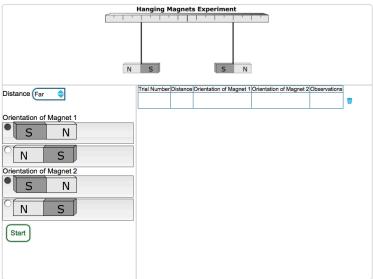
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## Part D

Click the box to select the answer to the question you decided to test in part A, based on the results of the experiment you ran in the simulation.

## Result of Experiment

Answer to Question

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7 ≡

An alpine marmot eats grass and seeds. In the fall, the marmot weighs more than it did in the spring.

Put the pictures in the correct order to show the flow of energy through the system.

- In Table 1, select a number for each picture to indicate the correct location in Figure 1.
- If a picture is not used in Figure 1, select "not used."

Figure 1. Energy Flow Model

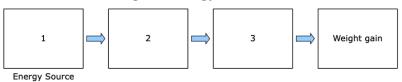


Table 1. Model Order

	Sun	Water	Marmot	Grass and Seeds
Picture				
Location	\$	<b>○</b>	•	•