

Name: _____

Deer Mouse: From the Field to the Beach

Student Field Notebook

Unit 1 - Natural History and Ecology

Lesson 1.1 - Natural History of Deer Mouse Fur Color

What are your observations from the video on page 1?

What is the driving question that you are investigating in Lesson 1.1 (from page 2)?

What did you discover after analyzing the data on page 5?

NOTES:

Use the space below to take any additional notes.

Lesson 1.2 - Ecology of Deer Mouse Fur Color

In the tables below, L = light brown, M = medium, and D = dark brown.

$$\text{Average} = \frac{\text{sum_of_mice}}{\text{\#_of_trials}}$$

$$\text{AveragePercent} = \frac{\text{Average}}{\text{Total_#_of_mice}} * 100$$

Complete the table below as part of page 2 in the online activity:

Lesson 1.2 - Table 1: Population Data Numbers of light and dark mice in the environment <u>with hawks</u>						
Initial Frequency of Colors	Environment	Final Number of Mice in Population after 60 months (5 years)				Average Percent (%)
		Trial 1	Trial 2	Trial 3	Average	
33.3% Light	Field	L:	L:	L:	L:	
		M:	M:	M:	M:	
		D:	D:	D:	D:	
		Total:	Total:	Total:	Total:	
33.4% Med. 33.3% Dark	Beach	L:	L:	L:	L:	
		M:	M:	M:	M:	
		D:	D:	D:	D:	
		Total:	Total:	Total:	Total:	

NOTES:

Use the space below to take any additional notes.

When you finish this page, return to the online activity and answer the questions.

Complete the table below after answering Question #4 on page 3 of the online activity.

Here are formulas you will need to fill out the table:

$$\text{Average} = \frac{\text{sum_of_mice}}{\text{\#_of_trials}}$$

$$\text{AveragePercent} = \frac{\text{Average}}{\text{Total_}\#\text{_of_mice}} * 100$$

Lesson 1.2 - Table 2: Population Data						
<i>Numbers of light and dark mice in the environment when there are no hawks</i>						
Initial Frequency of Colors	Environment	Final Number of Mice in Population after 60 months (5 years)				Average Percent (%)
		Trial 1	Trial 2	Trial 3	Average	
33.3% Light	Field	L:	L:	L:	L:	
		M:	M:	M:	M:	
		D:	D:	D:	D:	
		Total:	Total:	Total:	Total:	
33.4% Med. 33.3% Dark	Beach	L:	L:	L:	L:	
		M:	M:	M:	M:	
		D:	D:	D:	D:	
		Total:	Total:	Total:	Total:	

NOTES:

Use the space below to take any additional notes.

When you finish this page, return to your computer and answer Questions #5 and #6.

Lesson 1.2 - Table 3: Summary What did you learn?			
What did you do?	What did you observe? What patterns did you notice?	What have you figured out?	How does this help you understand what determines the fur color of the field mice?

When you finish this page, your teacher will direct you back to the online activity.