Nature at Work

Objectives: Students will understand how and why organisms change over time. Natural selection can lead to changes in a species' trait over time due to changes in an organism's environment. The student should be able to predict how changes can and will affect the process of natural selection.

Materials: Colored dots, colored paper, tweezers, stop watch, cup

Hypothesis:	******		

Procedures:

- 1. Students will take their cup of colored dots and spread dots on their paper.
- 2. Using tweezers collect dots one at a time and place them back in your cup. Collect dots for one minute. Count the dots and record data in the data chart.
- 3. Repeat step 2 three times.
- 4. Move to another background environment to ascertain whether the environment will change your outcomes. Repeat steps 1 through 3 again. Record data in data table.
- 5. Move to a 3rd background environment. Repeat steps 1 through 3. Record data in data table.

 Data Table

Trials	Color	Count for Each Color	Percent of total
			,
Ī			
1 1	11 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		
1 +			
†			
2			
	M-M-1, , , , , , , , , , , , , , , , , , ,		Title de
3	***************************************		
†			

Color of Background

		Rar (Graphing	
		Dai	or apuing	
	Color of Dot	s Det	a Table	
	<u> </u>			
	Trials	Color	Count for Each Color	Percent of total
	-			
	1			
	1	The second secon		
	2			
				-
		· · · · · · · · · · · · · · · · · · ·		
- 1				
	3			
	1			

Numbers of Dots

Color of Background

Color of Dots

Data Table

Trials Color Count for Each Color Percent of total

1

2

3

What colorsurvive?	or was your backgro	und? How did this a	ffect the organ	isms ability to	

Bar Graphing

Numbers of Dots	
of Dots	
	Color of Dots
gurvival de	hat you have learned about how the variations in an organism appearance can assist them in scribe another characteristic that may change over time. Be specific and give detailed about your organism's trait that has