

Name _____ Date _____ Period _____

Evolution by Natural Selection – “Survival of the Fittest”

Charles Darwin realized that members of a species with more favorable adaptations are most likely to survive and pass on their traits written in their DNA.

You will be making a colored Powerpoint to demonstrate how natural selection occurs across the entire Earth using Darwin’s five simple rules.

Page 1 – Title page

Include name, date, period, title from the top of these directions, along with a few pictures that are relevant to this topic. Label page #1 in bottom right corner.

Page 2 – Table of contents

List the table of contents for your booklet, and label page #2 in bottom right corner.

1. Cover Page: Darwin's Theory of Evolution by Natural Selection
 2. Table of Contents
 3. Rule 1
 4. Rule 2
 5. Rule 3
 6. Rule 4
 7. Rule 5
 8. Why Lamarck's Theory of Evolution by Acquired Traits was Incorrect
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Page 3 – **Darwin’s first rule of natural selection**

Copy rule #1 neatly from page 159

The environment we will be using throughout these five rules is a green coral reef. For this first picture please start all the fish as blue. This species of fish will change colors as we continue through the rules. Demonstrating how a species can change over time.

Page 4 – Darwin's second rule of natural selection

Copy rule #2 neatly from page 159

Modify (adjust) your picture from rule #1 (green coral reef with blue fish) to represent the second rule being acted out on this species of fish.

Random genetic mutations can always lead to new variations appearing within a population.

I suggest drawing some new red and green fish along with the blue fish.

Page 5 – Darwin's third rule of natural selection

Copy rule #3 neatly from page 159

Modify your picture from rule #2 to represent the 3rd rule being acted out.

I suggest showing the new variations of fish reproducing, increasing the population of each color.

Page 6 – Darwin's fourth rule of natural selection

Copy rule #4 neatly from page 159

Modify your picture from rule #3 to represent the 4th rule being acted out.

I suggest showing how the fish with the more favorable adaptation (camouflage color) will survive better, and the fish with the less favorable adaptation will die off or decrease in population.

Page 7- Darwin's fifth rule of natural selection

Copy rule #5 neatly from page 159

Modify your picture from rule #4 to represent the 5th rule being acted out.

I suggest showing many fish with the most favorable adaptation on the coral reef and less of any other variation of the species

Page 8- Lamarck's theory of evolution by acquired traits

Write out Lamarck's theory of acquired traits even though he has incorrect in his explanation.

Draw a corresponding picture that depicts how he thought evolution occurs.
