

NATURAL SELECTION

VOCABULARY – Use the resources on Mr. Hanna’s website to define the following key terms related to heredity.

- 1) SPECIES –
- 2) EVOLUTION –
- 3) VARIATION –
- 4) ADAPTATION –
- 5) NATURAL SELECTION –

SHORT RESPONSE – Provide a short answer (a few sentences or less) in response to each prompt.

- 6) How do “variations” arise within a species?

- 7) How can “variations” lead to “adaptations”?

- 8) What result would you expect from a species when an individual organism is born with a...
 - a. beneficial mutation (a mutation that gives it an advantage over other individuals)?

 - b. harmful mutation (a mutation that puts it at a disadvantage to other individuals)?

 - c. neutral mutation (a mutation that is neither beneficial or harmful to the individual)?

- 9) One of the most famous examples of natural selection are Darwin’s Galapagos Finches. Darwin noticed after he reviewed his drawings that finches on different islands had different beak shapes. How did this lead Darwin to his ideas about natural selection?

- 10) List some of the factors that may contribute to the evolution of a species over time (changes in its characteristics over many, many generations).