

Chapter 15 & 16 Big Quiz – What to Know

Biology B

Chapter 15:

- Darwin
 - Significance of Galapagos Islands observations
 - Ideas influencing
 - Hutton, Lyell
 - Lamarck
 - Malthus
 - What did Darwin NOT know?
- Evolution
 - Define
- Artificial selection
 - Define
 - Recognize examples
- Natural selection
 - Define
 - Apply definition to examples
- Fitness
 - Define
 - Apply definition
- Theory of Evolution by Natural Selection
 - Begins with what essential observation?
 - What causes a struggle for existence?
 - What is the *cause* of an organism's fitness or lack thereof?
 - What is the origin of species?
 - Common descent
 - Define

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Chapter 16:

- Gene pool
 - Define
- Genetic variation
 - Sources
- Mutation
 - Definition
 - Sources
- Single-gene & polygenic traits
 - Definitions
 - Examples of each
 - Characteristic graphs of each
 - How many phenotypes will result from each?
- What does natural selection act upon?
- Natural selection on single-gene traits
 - Results
- Natural selection on polygenic traits
 - 3 types
 - Name
 - Describe results of each type of selection
 - Recognize graphs of each
- Genetic drift
 - Define
 - Type of population most likely to experience it
- Genetic equilibrium
 - Define
 - 5 conditions required
- Speciation
 - Define
 - Examples
- Reproductive isolation
 - Define
 - Requirement for what?
 - Isolating mechanisms
 - 3 types
 - Define
 - Recognize examples