Biology Chapter 15 Notes Outline

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Darwin’s Theory of Evolution – Pages 369-389**

15.1 The Puzzle of Life’s Diversity-

**Evolution-**

**Theory-**

Voyage of the Beagle-

Darwin’s Observations-

Patterns of Diversity-

Living Organisms and Fossils-

**Fossils-**

The Galapagos Islands-

The Journey Home-

15.2 Ideas that Shaped Darwin’s Thinking-

An Ancient, Changing Earth-

Hutton and Geological Change-

Lyell’s Principles of Geology-

Lamarck’s Evolution Hypotheses-

Tendency toward Perfection-

Use and Disuse-

Inheritance of Acquired Traits-

Evaluating Lamarck’s Hypotheses-

Population Growth-

**SECTION QUESTIONS**

**1.) What two ideas from geology were important to Darwin’s thinking?**

**2.) According to Malthus, what three factors limited population growth?**

15.3 Darwin Presents His Case-

Publication of *On the Origin of Species-*

Inherited Variation and Artificial Selection-

**Artificial Selection-**

Evolution by Natural Selection-

**The Struggle for Existence-**

Survival of the Fittest-

**Fitness-**

**Adaptation-**

**Survival of the Fittest-**

**Natural Selection-**

**Descent with Modification-**

**Common Descent-**

Evidence of Evolution-

The Fossil Record-

Geographic Distribution of Living Species-

Homologous Body Structures-

**Homologous Structures-**

**Vestigial Organs-**

Similarity in Embryology-

Summary of Darwin’s Theory-

1.

2.

3.

4.

5.

Evolutionary Theory Since Darwin-

**SECTION QUESTIONS**

**1.) The theory of evolution by natural selection explains, in scientific terms, how living things evolve over time. What is being selected in this process?**

**2.) What types of evidence did Darwin use to support his theory of change over time?**