**I Ecosystems: Everything Is Connected**

*Survival List:*

 ***1. Defining an Ecosystem***

 Ecosystem:

 Ecosystems are connected

 a.

 b.

***2. Ecology:***

***3. The Components of an Ecosystem***

Ecosystems need five basic components to survive:

1.
2.
3.
4.

 *Biotic & Abiotic Factors*

 4. Biotic Factors:

 5. Abiotic Factors:

*6. Ecologists organize life into categories:*

Organism:

* *Species*:

 Populations:

 Communities:

* *Habitat:*

Ecosystem:

Biome:

Biosphere:

**II Evolution**

*What do you think?*

9. *Charles Darwin*

 Charles Darwin observed that:

 He Proposed:

10. Natural Selection:

11. Evolution:

12. Adaptation:

12. *Three Types of Adaptations*

 Physical Adaptations:

 Behavioral Adaptations:

 Physiological Adaptations:

13. *Darwin’s 4 premises*:

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14. Coevolution:

 *Example:*

*Man Selects*

15. Artificial Selection:

 Example:

*Evolution and Resistance*

 16. Resistance:

 Example - Pesticide and Corn:

 *Evidence for Evolution*

 17. Homologous Structures:

 18. Vestigial Structures:

 19. Biochemical Evidence (DNA):

20. Convergent Evolution:

21. Divergent Evolution: