**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:



*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*:



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: