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**Mid Year Review**

**Unit 1: Ecosystems**

1. Does an ecosystem support more autotrophs or heterotrophs?

2. What does abiotic mean?

3. What does biotic mean?

4. Draw a food chain with at least 4 organisms in it. Label each of the organisms as a producer or consumer and include what level each is:

5. Draw a food web that includes at least 10 organisms. Label each organism as a producer or tell what level of heterotroph it is.

6. How much energy is LOST every time you go up a level on the energy pyramid?

7. In a food chain, which trophic level contain the greatest number of organisms?

8. What are organisms that digest dead plant and animal tissues called?

9. What do primary consumers eat?

10. What is the main source of energy to all organisms?

11. What is carrying capacity?

12. What is the definition of limiting factors?

**Unit 2: Chemistry of Life**

13. What are the 4 elements that make up 96% of living things?

14. Draw the carbon cycle.

15. Draw the Oxygen cycle.

16. Draw the water cycle.

17. What is the first law of thermodynamics?

**Unit 3: Macromolecules**

18. What are the 4 Macromolecules that make up living things?

19-39. Fill out this chart:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Macromolecule | Monomer (Building Block) | Purpose | Example | Picture |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**Unit 4: Cells & Cell Processes**

40. What is the formula for photosynthesis?

41. What is the formula for cellular respiration?

42. Where does photosynthesis take place in a cell?

43. Where does cellular respiration take place in a cell?

44-54. List 10 cell organelles and their functions.

**Exploring Unit 5: Heredity**

55. What is DNA?

56. What is mitosis?

57. What is heredity?