Unit Objectives: Biosphere

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Unit Objectives: TSWBAT…

1. Explain what ecology is
2. Distinguish the difference between biotic and abiotic factors
3. Identify the 6 levels of organization in the biosphere and their associated components
4. Apply knowledge of the levels of organizations to real world situations
5. Explain how sunlight is converted into usable energy
6. Distinguish the difference between autotrophs and heterotrophs
7. Explain how energy flows throughout the ecosystem
8. Analyze food chains
9. Calculate the energy transferred between trophic levels
10. Explain how matter flows throughout the ecosystem
11. Identify and describe the four biogeochemical cycles: water, carbon, nitrogen, and phosphorous
12. Describe and explain the causes, effects, and solutions of an environmental issue affecting one of the biogeochemical cycles