**Writing with the 4 C’s: Carbon Cycle**

Use chemical equations to summarize the process of photosynthesis and cellular respiration. Identify the sources of the reactants in each equation.

**Read the four sample answers below.**

1. Photosynthesis is carbon dioxide from the atmosphere plus water from the soil plus energy from the sun to form carbohydrates and oxygen. Cellular respiration is oxygen that organisms inhale plus carbohydrates from food which create carbon dioxide, water and energy. .
2. Photosynthesis: carbon dioxide, water and energy = sugar and oxygen. Cellular respiration is breathing in oxygen and breathing out carbon dioxide.
3. Photosynthesis = CO2 and H20 = oxygen and sugar and energy. Cellular respiration is the reverse. ..
4. The equation for photosynthesis is CO2+Energy = O2 and Carbohydrates. The C02 Is from the air, and produced by organisms through Cellular respiration and burning fossil fuels and killing trees etc. The equation for cellular respiration is O2 + Energy = CO2. The O2 is drawn from the air, and is produced by plant life. Energy is taken from food eaten, and the energy is from the sun but passed up the trophic levels

**Complete**: What three points should be made?

**Correct**: Put a check mark for each of these points made in the answers. Put an X if something is wrong.

**Concise**: Put a line through any words that are unnecessary or where ideas are repeated.

**Clear**: Put a question mark if an idea is not expressed clearly.

**Write an answer below that would get 5/5. Do not use more than forty words.**

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