

SC.912.L.18.9 – Photosynthesis and Cellular Respiration – Example 5 Answer

How are cellular respiration and photosynthesis related, in terms of energy?

- A. The energy captured in photosynthesis is used to power cellular respiration.**
- B. The energy transformed in cellular respiration is used to power photosynthesis.**
- C. Photosynthesis and respiration perform the same task in terms of energy transformation.**
- D. Energy is not involved in either photosynthesis or cellular respiration.**

Answer

- A. The energy captured in photosynthesis is used to power cellular respiration.

Energy from the sun is used captured during photosynthesis and stored in the bonds of glucose molecules. During cellular respiration, this energy transferred to ATP molecules to be used to do work in the cell.