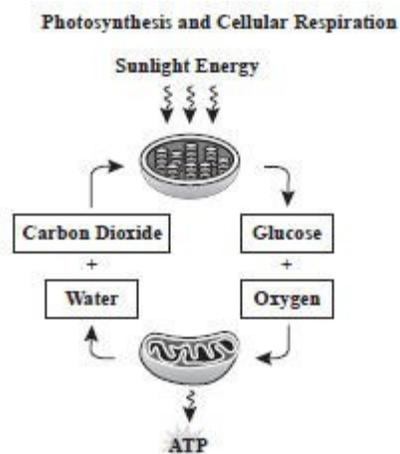


SC.912.L.18.9 – Photosynthesis and Cellular Respiration – Example 1 Answer

The diagram below shows the relationship between photosynthesis and cellular respiration and the organelles in which they occur.



Which statement describes how photosynthesis and cellular respiration are interrelated?

- A. Oxygen is produced during cellular respiration and stored during photosynthesis.**
- B. Carbon dioxide and water released by cellular respiration are used in photosynthesis.**
- C. Photosynthesis releases the energy that is stored during the process of cellular respiration.**
- D. Glucose is used during cellular respiration to produce food that is broken down during photosynthesis.**

Answer

B. Carbon dioxide and water released by cellular respiration are used in photosynthesis.

The products of cellular respiration (CO_2 and H_2O) are the reactants of photosynthesis. The overall equations for photosynthesis and cellular respiration are the reverse of each other.