

SC.912.L.14.7 – Plant Structure – Example 1 Answer

Terrestrial plants have stomata on the surface of their leaves. Stomata are surrounded by two guard cells that change shape in response to environmental factors and open or close the stoma. Which of the following **best** explains how the structure of the leaf is used in processes that occur in plants?

- A. Water enters the plant through the surface of the leaf for transpiration**
- B. Gases for photosynthesis are exchanged through the surface of the leaf.**
- C. Energy for cellular reproduction is absorbed through the surface of the leaf.**
- D. Carbon dioxide enters the plant through the surface of the leaf for cellular reproduction.**

Answer

B. Gases for photosynthesis are exchanged through the surface of the leaf.

Gas exchange in leaves is called transpiration and occurs through the stomata.