

QUESTION

What is the correct order of the following steps in the process of photosynthesis?



1. Light energy is captured by chlorophyll in the chloroplasts.

2. Water is split into oxygen and hydrogen ions.

3. Electrons from the water-splitting reaction are used to reduce NADP⁺ to NADPH.

4. Light energy is used to drive the synthesis of ATP from ADP and inorganic phosphate.

5. The energy from ATP and NADPH is used to drive the synthesis of glucose from carbon dioxide and water.

6. The energy from ATP and NADPH is used to drive the synthesis of oxygen from water.

ANSWER

The correct order of the steps in the process of photosynthesis is 1, 2, 3, 4, 5, 6.