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Crash Course Biology #28: Photosynthesis: The Original Solar Power

Name: _____ Date: _____

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1. The human population is growing, and by 2050, it could reach _____ billion people.
2. Scientists have identified that the average annual increase in food production has begun to _____.
3. Rising temperatures due to _____ are predicted to worsen extreme weather and droughts.
4. One way scientists are working to improve food production is by researching _____.
5. The process plants use to make their own food is called _____.
6. The specific organelles where photosynthesis occurs are called _____.
7. The two main stages of photosynthesis are the _____ and the _____.
8. The light-dependent reactions take place in the _____ membranes.
9. The pigment that gives green plants their color and absorbs sunlight is called _____.
10. The Calvin Cycle, or the light-independent reactions, takes place in the _____ of the chloroplast.
11. The molecule that stores and transfers energy during photosynthesis is called _____.
12. The byproduct of photosynthesis that organisms use for respiration is _____.
13. The enzyme involved in carbon fixation during the Calvin Cycle is called _____.
14. The process in which plants convert carbon dioxide into organic compounds like sugars is called _____.
15. The process that allows plants to grow by turning carbon dioxide into usable energy is called _____.

Crash Course Biology #28: Photosynthesis: The Original Solar Power

1. The human population is growing, and by 2050, it could reach ten billion people.
2. Scientists have identified that the average annual increase in food production has begun to plateau.
3. Rising temperatures due to climate change are predicted to worsen extreme weather and droughts.
4. One way scientists are working to improve food production is by researching photosynthesis.
5. The process plants use to make their own food is called photosynthesis.
6. The specific organelles where photosynthesis occurs are called chloroplasts.
7. The two main stages of photosynthesis are the light-dependent reactions and the Calvin Cycle.
8. The light-dependent reactions take place in the thylakoid membranes.
9. The pigment that gives green plants their color and absorbs sunlight is called chlorophyll.
10. The Calvin Cycle, or the light-independent reactions, takes place in the stroma of the chloroplast.
11. The molecule that stores and transfers energy during photosynthesis is called ATP.
12. The byproduct of photosynthesis that organisms use for respiration is oxygen.
13. The enzyme involved in carbon fixation during the Calvin Cycle is called RuBisCO.
14. The process in which plants convert carbon dioxide into organic compounds like sugars is called carbon fixation.
15. The process that allows plants to grow by turning carbon dioxide into usable energy is called carbon fixation.

15 Questions

Answer Key Included

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