

Energy in Ecosystems Outline

Lesson 2: How Do Plants Get Energy?

I. Getting Sunlight, Water, and Air

A. Sun Energy

1. Plants get energy from the sun
2. Leaves change sunlight into useable energy

B. Chlorophyll

1. Plant cells contain chlorophyll
2. Chlorophyll traps the sun's energy
3. Chlorophyll is the green substance in leaves

C. Water and Minerals

1. Veins, tubes in leaves, bring water and minerals from the stems
2. Roots get water and minerals from soil

D. Carbon Dioxide

1. Plants use CO₂, carbon dioxide
2. CO₂ comes in tiny holes in the bottom of the leaves

II. How Plants Produce Sugar

A. Photosynthesis

1. Plants use sunlight, CO₂, and H₂O to make sugar
2. When plants make sugar, it is called photosynthesis
3. When plants make sugar, O₂, oxygen, is released
4. When plants use sugar, they give off CO₂ and H₂O
5. Plants get rid of the waste through the tiny holes

B. Producers

1. Plants use light energy to make sugar
2. Because plants **make** sugar, they are called producers
3. Plants use sugar (and minerals) to make plant parts
4. Some sugar is stored by the plant
5. Some sugar is changed into starch and is stored (mostly in the roots)