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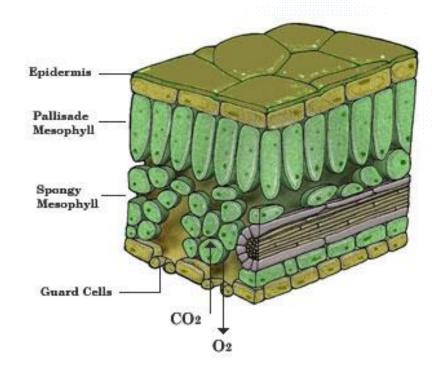
## Plants





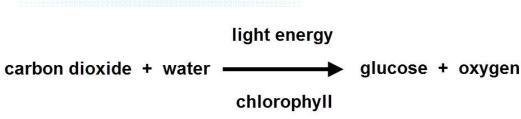
# How do Plants Get and Use Energy?

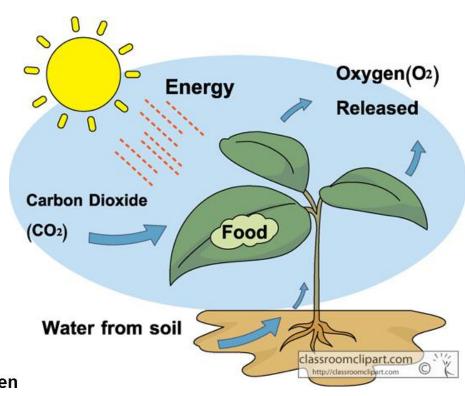
- "The leaves of a plant make glucose that contains energy.
  Cells break down the glucose to release the energy stored in them.
- " Plants make glucose through photosynthesis



### Photosynthesis

- " Leaves take in the sun's energy and trap it in chlorophyll in the chloroplasts
- Leaves breathe in carbon dioxide (CO<sub>2</sub>) from the air and take in water from the soil
- " Glucose is produced and oxygen  $(O_2)$  is released as a waste product

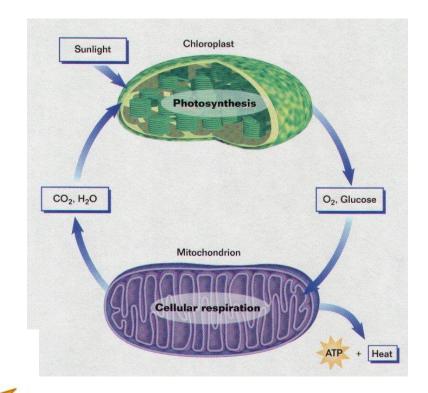


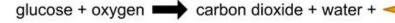




#### Cellular Respiration

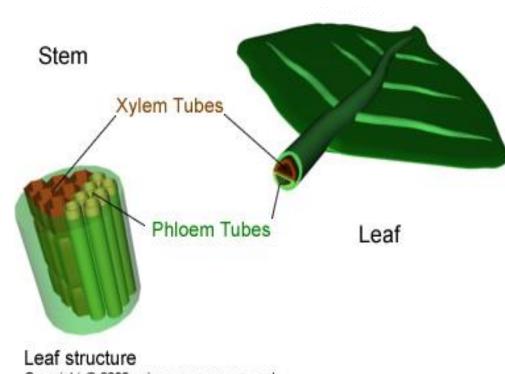
- " When plants have extra glucose, they store it for later.
- " Glucose must be broken down so the plant can use it as energy
- "Breaking down glucose into energy the cells can use is called cellular respiration.
- " Cellular respiration occurs in the mitochondria of cells





#### Parts of a Vascular Plant

- Roots and leaves have structures called Xylems and **Phloems**
- Xylem Tubes that carry water and minerals from the roots to other parts of a plant
- Phloem Tubes that carry sugars made in the leaves to other parts of the plant
- **Epidermis** The thin covering of roots and leaves, where water and minerals enter



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#### Parts of a Vascular Plant

- " Leaves have special structures that help them breathe
- " Guard Cells special cells that open and close on a leaf's surface, allowing air to come in and out of a leaf
- " Stoma The hole that develops from the opening and closing of guard cells
  - " Open in the day time, and closed at night

