**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_#\_\_\_\_\_\_\_**

**Slotted Notes – Plants and Photosynthesis**

**Basic Plant Anatomy**

**Flower** – Attracting \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to help with pollination.

**Stem** – Holds the leaves up and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ materials.

**Leaves** – Absorbs \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to produce \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for food.

**Roots** – \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the plant, absorbs water and minerals.

**Xylem –** Carries water and minerals UP from the roots.

**Phloem –** Carries nutrients and glucose to the WHOLE plant.

**Main Job of Leaves**

Leaves allow a plant to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

They produce food using a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ reaction called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Leaves take in: And produce:



Light comes from the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Carbon dioxide comes from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Water comes from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Oxygen goes to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Glucose goes to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ traps the sunlight and gives leaves their green color.

Leaves have tiny holes on the bottom of them and these holes are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Stomata** allow gases to enter and exit the leaf. \_\_\_\_\_\_\_\_\_\_\_\_ enters, \_\_\_\_\_\_\_\_\_\_ exits, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ vapor exits.

Stomata can be opened or closed. They are surrounded by sausage-shaped \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that control it’s opening/closing. When guard cells swell with water, the stomata \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. When guard cells lose water, the stomata \_\_\_\_\_\_\_\_\_\_\_.