

## Lab 12: **Angiosperm Anatomy and Transpiration**

### **Angiosperm Anatomy:**

Diagram the equation for photosynthesis.

Describe the 3 major ways that plants lose water. Why is this actually a good thing and how does this system compare to animals?

Draw and compare the two main types of stems: Monocot and Dicot. Be sure to include these terms: **Xylem, Phloem, Bark, Wood, Pith, Epidermis and Cortex.**

Draw a diagram of a cross section of a leaf. Be sure to include these terms: **Cuticle, Vascular Bundle with Xylem and Phloem, Upper and Lower epidermis, Palisades and Spongy mesophyll, Stoma with Guard cells, Airspace.**

Using your microscope, examine and draw the stoma. Be sure to include these terms:  
**Guard Cells, Stoma, Epidermis.**

Just how does the Guard Cells work?