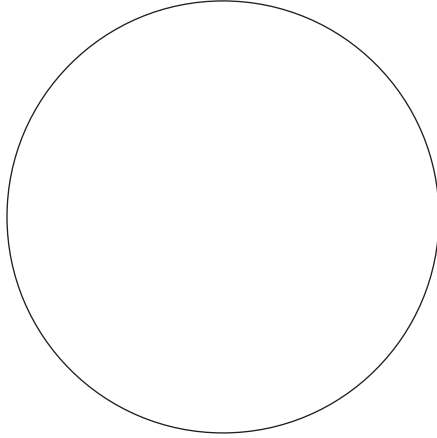


Plant Morphology Worksheet

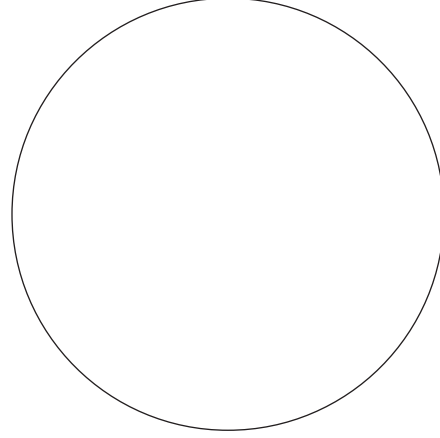
Observations and Analysis

Stomata



Magnification _____

Stem Cross-Section



Magnification _____

Questions

1. Were most of the stomata open or closed in your preparation? Propose a likely reason why the stomata are either open or closed.

2. What is the function of the guard cells? How does the function of the guard cells differ from that of epidermis cells?

3. How does the structure of each type of cell relate to its function?

4. Describe the appearance of the vascular tissue. Does it have a pattern?

5. Where within the stem is the vascular tissue located? How might this location be beneficial to the plant?