Master Gardener Botany Handout

**Xylem** - water and nutrient conducting tissue

**Phloem** – photosynthate (food) conducting tissue

**Cambium** - layer of tissue that produces new xylem and phloem

**Photosynthesis**: the process where green plants convert CO$_2$ and water to food via energy from the sun

**Respiration**: the process of converting sugars and starches into energy to be used by the plant for growth

**Transpiration**: the process of losing water (in the form of vapor) through stomates
Flower Dissection Exercise

Please find the following parts on your flower:

**Perianth**
- [ ] Petals
- [ ] Sepals

**Female Parts**
- [ ] Stigma
- [ ] Style
- [ ] Ovary
- [ ] Ovule
- [ ] Pistil (entire female structure)

**Male Parts**
- [ ] Anther
- [ ] Filament
- [ ] Stamen (entire male structure)

Is your flower complete or incomplete (containing all the flower parts)?

Is your flower perfect or imperfect [has male (staminate) and female (pistillate) parts]?