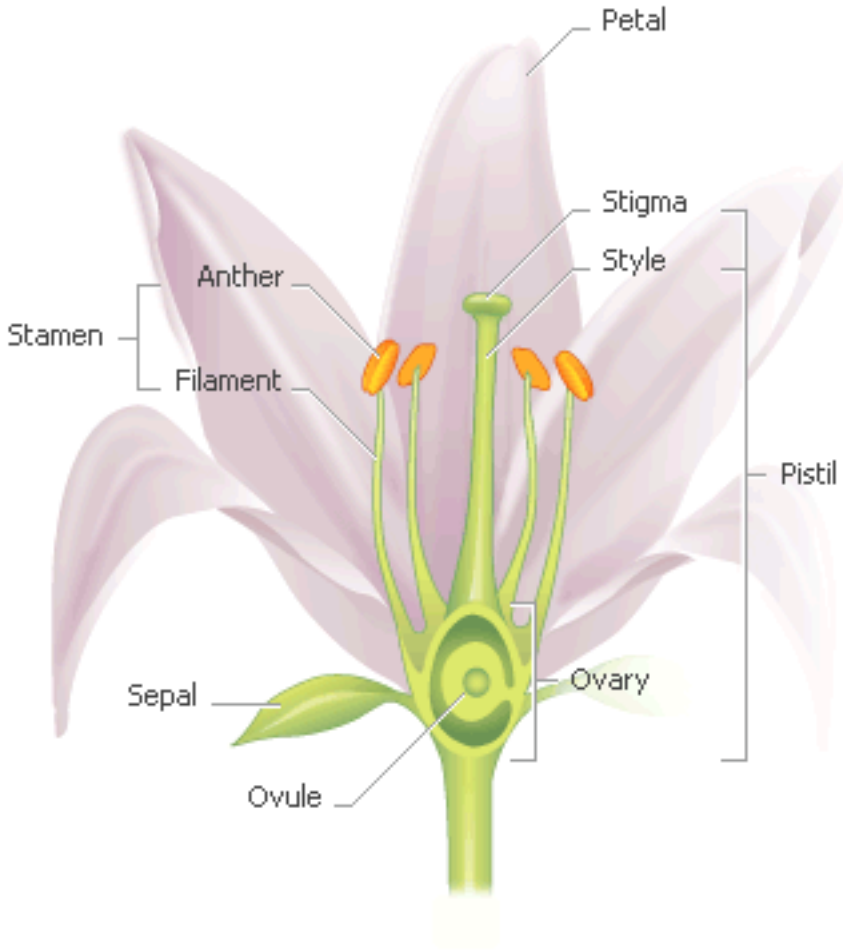
LAB: Flower Dissection

Date _____

Last Name _____, First _____ Period ___



Carefully examine your flower and compare it to the diagram.

1. Describe the color of the petals. _____
   a. How many petals does it have? _____

2. Describe the color of the sepals. _____
   a. How many sepals does it have? _____

Carefully dissect your flower. Find the reproductive parts.

3. How many pistils? _____

4. Describe the stigma. (color, shape, anything else you notice) _____
   _____

5. Find the ovary at the base of the pistil. Is it located above or below the sepals? _____

6. *Carefully remove the pistil with the ovary*. **Draw** a picture of the pistil. **Label** the stigma, style and ovary.

Use the sharp tip of a probe to cut into the ovary.

7. How many ovules (eggs) do you find inside the ovary? _____

8. Is the pistil a male or female reproductive organ? _____

9. Locate the stamens. Describe their color and appearance. **Draw** a picture of one stamen. **Label** the anther and filament.

10. Look closely. Is the anther above or below the stigma? _____

11. Use a microscope to look at the anther. Do you notice small round pollen grains? _____

12. Pollen grains contain sperm cells. What percentage of chromosomes would the pollen grain have compared to the plant body cells. _____%

13. How many chromosomes would a pollen grain have compared to an ovule? _____

14. Is the stamen a male or female reproductive organ? _____

15. Describe the path that a pollen grain must follow in order to fertilize an egg. _____
_____
_____

16. Does this plant reproduce by sexual or asexual reproduction? _____