Period: _____

Name:

Lab 24: Flower Dissection

Intro:

Flowers are the reproductive organs of the shoot system in a flower plant. Both the male and female sex cells are produced within the structures of a flower to create progeny in the form of seeds. You will investigate this plant structure by completing a dissection of a flower and compare the structures found in this reproductive system to that of animal reproductive systems.

Materials:

Specimen:

	=	
Dissection needles	Stargazer Lily Flower	Genus: <i>Lilium</i>
Hand lens	Kingdom: Plantae	Species stargazer
Dissecting Tray	Order: Liliales	
Ruler	Family: Liliaceae	
	Dissection needles Hand lens Dissecting Tray Ruler	Dissection needlesStargazer Lily FlowerHand lensKingdom: PlantaeDissecting TrayOrder: LilialesRulerFamily: Liliaceae

Procedure:

- 1. Carefully examine your whole flower when you receive it. Compare your fresh flower structure to the diagram.
- 2. Answer the questions listed under A and B.
- Carefully push aside the sepals and petals to see the style with the stigma on top. Use a scalpel to careful slide down the middle of 3. the style and through the ovary of the flower. You should be able to splay open the cut flower.
- 4. Use the dissecting needle and hand lens to investigate the parts of the flower
- In the "diagram" space, draw your flower specimen and LABEL it correctly using the given diagram. 5.
- 6. Answer questions listed under C and D.
- 7. When you are done, clean up as instructed and answer the analysis.

Observation Questions:

A. Sepals: B. Petal		Petals:		
1.	Number present?	1.	Number present?	
2.	Color?	2.	Color?	
3.	Location?	3.	Location?	
4.	Function?	4.	Function?	
C. 5	Stamen:	D.	D. Pistil:	
1.	Is this the male or female part?	1.	Is this the male or female part?	
2.	Number present?	2.	Number present?	
3.	Location?	3.	Location?	
4.	Name the 3 parts of this organ:	4.	Name the 3 parts of this organ:	
5.	What is released from this structure?	5.	Feel the stigma. Describe its texture.	
6.	Carefully remove one stamen from your flower.	6.	What advantage does the stigma's feeling or texture give the	
	a. Break open one anther. What is inside?		plant?	
	b. Describe (shape, color, texture) what is inside:			
		7.	What gamete is inside the ovule?	
7.	Which sex cell is the pollen?			
		8.	What is a ripened/enlarged ovary called?	

Analysis Questions:

1. What is the function of a flower? How does this function relate to the functions ovaries and testes in an animal?

2. What structures are similar between a flower and an animal's reproductive structures?

Diagram of Specimen:

Draw a picture of your dissected flower. Identify the type of flower you dissected and label all structures.

Flower Type Dissected _____

