Name:	Date:	Period:	
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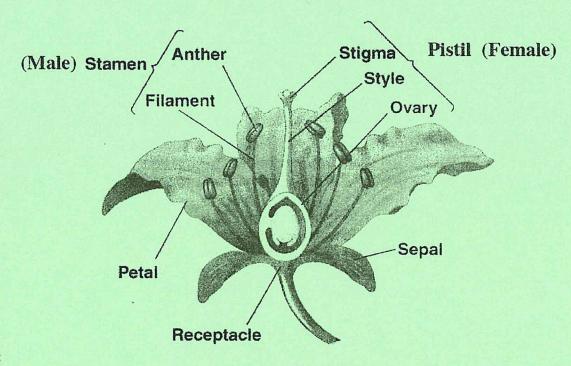
Flower Dissection Lab Activity

Background Information:

Every flower consists of a set of adaptations that help to ensure successful reproduction. For example, flowers often have bright colors, attractive shapes, and pleasing aromas. These traits help them attract insects and other animals that will carry pollen grains from flower to flower. Pollination also occurs by means other than animals carrying the pollen. For some flowering plants, the wind plays an important role in transferring pollen from plant to plant.

The seed-bearing plants that produce flowers are **angiosperms**. The flower produces the seeds, each of which contains a new plant embryo. The parts of the flower are usually found in whorls, or rings. **Petals** are one of the sets of whorls. They attract pollinators. **Sepals** lie outside the petals. They protect the bud.

The reproductive organs, the stamens and pistils, lie inside the petals. A **stamen** is a male reproductive part. It consists of an anther that is held up by a **filament**. The **anther** produces pollen grains. A **pistil** is a female reproductive part. Its top is called the **stigma**. It is sticky to ensure that when pollen grains land on it, they stick to it. The middle supporting structure is the **style**, and the large base is the **ovary**, where the eggs are produced.



Materials:

Flower, Forceps, Magnifying Glass, Glue/Tape, Scalpel/Razor (optional)

Proc	cedure:							
]	Locat a.	ne outermost layer of flower parts. These are the sepals. Carefully remove the sepals. Record the number of sepals, attach one, and describe the function in your data table.						
2		ntify the petals. These form the next layer of flower parts. Carefully remove each petal. a. Fill in the data table on the next page.						
	b.	What advantage to the flower are colorful petals?						
-	c.	Why are the sepals and petals referred to as "accessory parts" (of the plant)?						
	×							
		•						
	3. Now a.	locate the stamen. These male flower parts should now be exposed. Record the number of stamen, attach one, and describe the function in your data table.						
	ь							
	C.							
	d	Why is it important to elevate the anthers?						
	e.	Describe two different ways that a pollen grain can get to the stigma of a pistil.						
	f.	Flowers usually contain more stamen than pistils. Why do you think this is?						
2	4. The f	emale flower part remains.						
		Record the number of pistils, attach one, and describe the function in your data table.						
		Name the flower part that elevates the stigma.						
	c.							
	d.	How does the structure of the stigma aid in pollination?						
	e.	Which parts of the flower develop into the seeds?						
	f.	When fertilized, what will the ovary grow into?						

Data:

Flower Part	Number	one of each part below.	Description of function
×	of	Presid	
Sepal			
Petal	,		
Stamen		(Label the anther and filament)	
Pistil/Carpal		(label the stigma, style, ovary)	