



Biology 1 Flower Dissection Activity

Name:
Name:
Date:
Hour:

Gregor Mendel was an Austrian monk famous for his laws and predictions describing inheritance through sexual reproduction. To better understand how and which traits are passed from parent to offspring, many observations were necessary. To visualize the results of multiple matings, Mendel needed a sexual organism that produced many offspring. His choice was the pea plant.

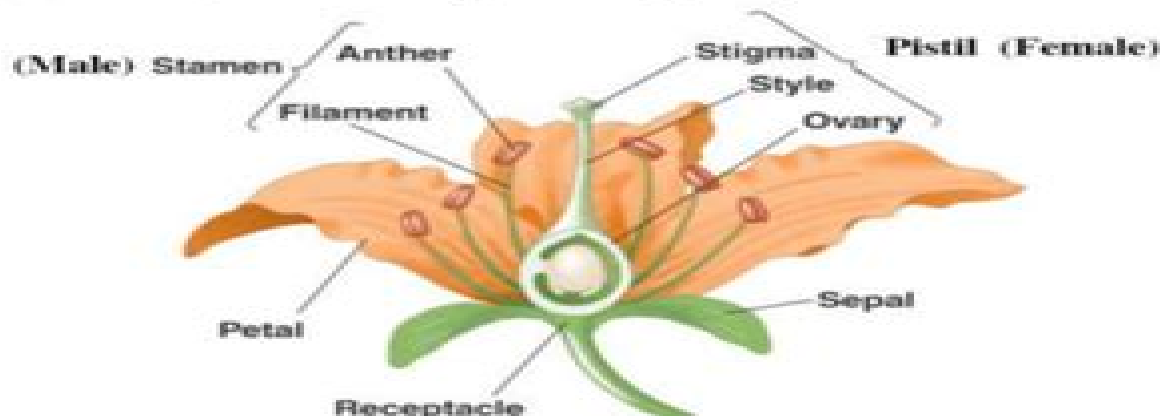
Many plants (including peas) are sexual reproducers. To fully appreciate Mendel's techniques and findings, it is important to understand the sexual structures, gametes and reproductive strategies of flowering plants. A thorough flower dissection will reveal many of these.

A dissection is meant to afford an opportunity to get a first-hand look at how a living thing is put together. Drawings will be necessary. Labeled sketches are an important method for confirming observations. The purpose of the drawings is to show how the main structures of the organism relate to each other. Drawings do not need to be of "art" quality, but they must be neatly done and labeled.

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.



Parts Of A Flower Lab Answers

Emilie Sanchez

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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