

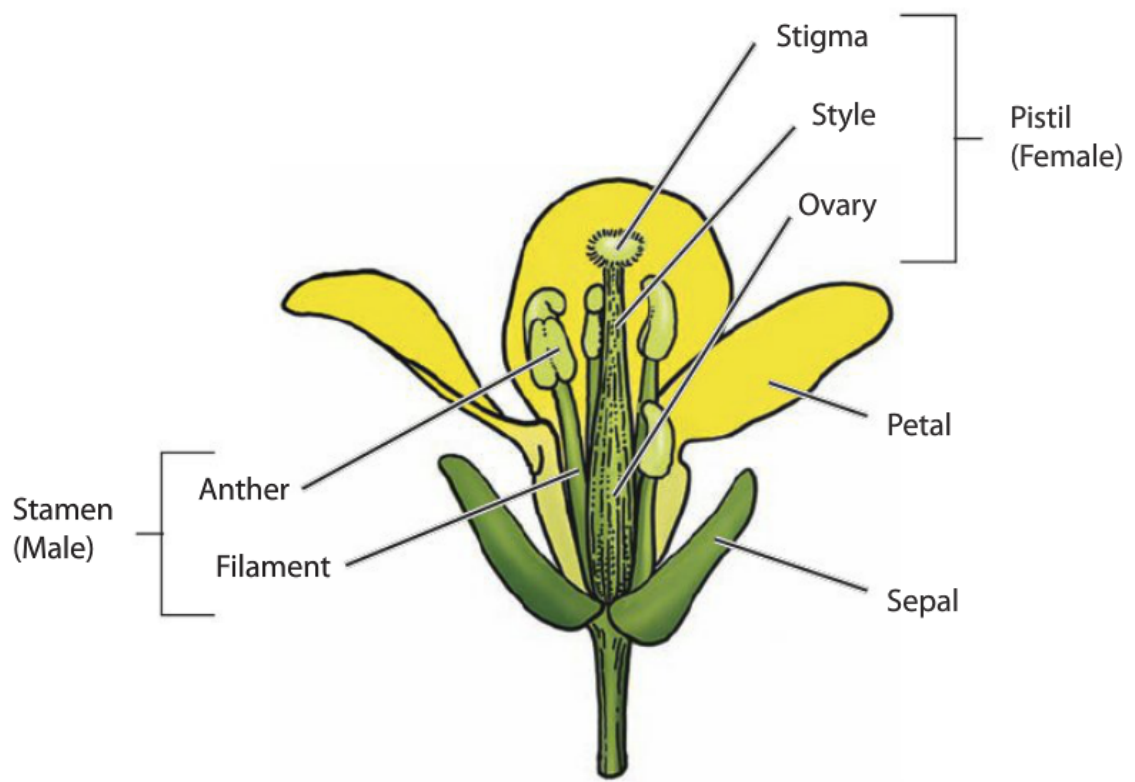
Purpose: To observe the structures of a fast plant and to pollinate the fast plants.

Research/Background:

All organisms reproduce, including plants. Our Fast Plants reproduce through a sexual process called pollination. In this activity you will observe the flower of a Fast Plant, label its parts, state the function of those parts, and then pollinate your plant.

Part 1: Defining Key Terms

Below is an image of the Fast Plant flower. Each part is already labeled. Read pages 104-106 to find the definitions of each part. Write down the definitions in the space provided on the next page.



Continued on the next page.

Stamen (Male) Parts	Definition
Anther	
Filament	

Pistil (Female) Parts	Definition
Stigma	
Style	
Ovary	

Reflecting on Part 1.

1. What is/are the difference(s) between a perfect (complete) and imperfect (incomplete) flower?

2. Are our Fast Plant flowers examples of perfect (complete) or imperfect (incomplete) flowers? Explain how you know.

3. What is pollination? How does pollination occur (i.e. what moves the pollen)?

4. What is/are the differences between self-pollination and cross-pollination?

Continued on next page.

Part 2: Documenting Your Fast Plant

Retrieve your Fast Plant. Take a close-up picture of an non-pollinated Fast Plant Flower. You may want to use a hand lens to assist you with this. Label the parts you can identify. Use the picture on page 1 of this handout to help you.

Take a close-up picture of a pollinated Fast Plant Flower. Label the parts you can identify.

Reflecting on Part 2.

1. What is/are the difference(s) between the non-pollinated and pollinated Fast Plant flowers?

Part 3: Pollinating your Fast Plant

Follow steps 1 and 2 of the procedure on page 98. You may cross-pollinate between plants in your own system or from plants in other students' systems.