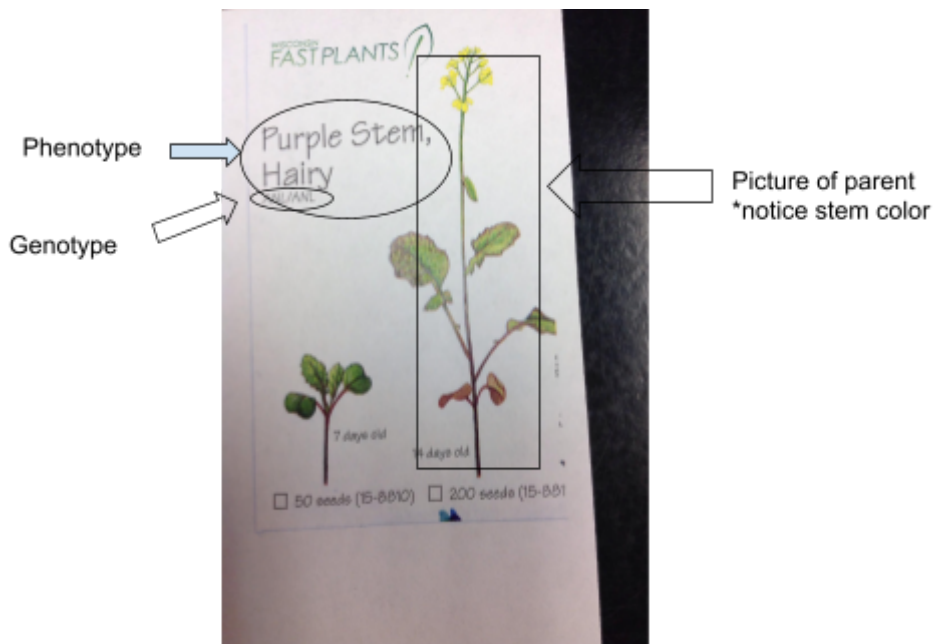


Name: _____

Hour: _____

Activity 2.3: Is there a pattern to how traits are passed on?

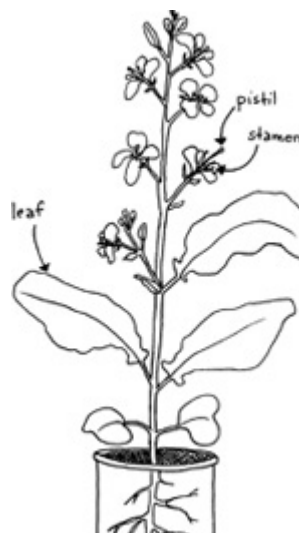
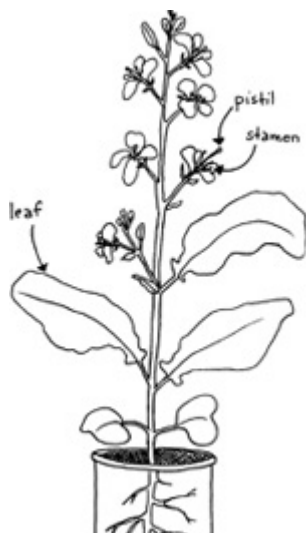
1. What is the number on your bin?
2. Look at the picture of the fast plants you will be using in this experiment in your bin. (Use the diagram below to help you identify the following information)



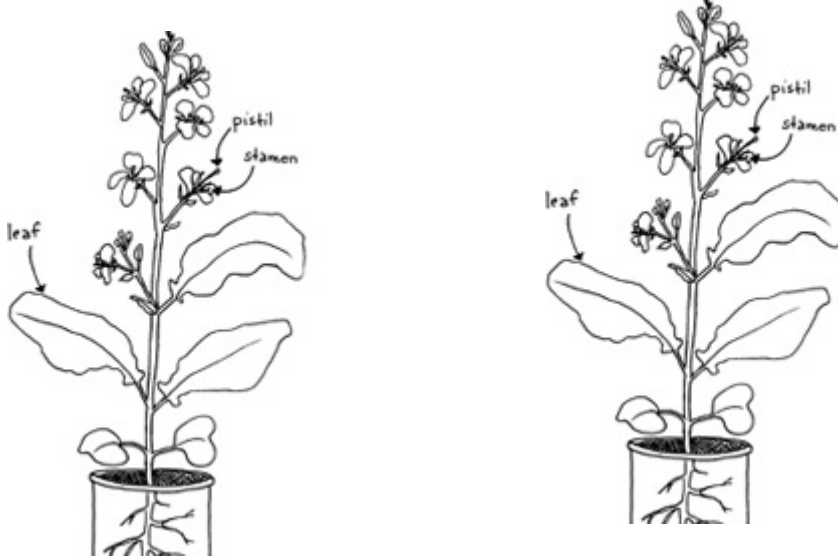
a. What is the phenotype (description) of your plant?

b. What is the genotype (capital letters written) of your plant?

- c. Color in the picture below to represent the parent plants that will be used in your experiment (*be sure to color the stem green or purple according to your phenotype)



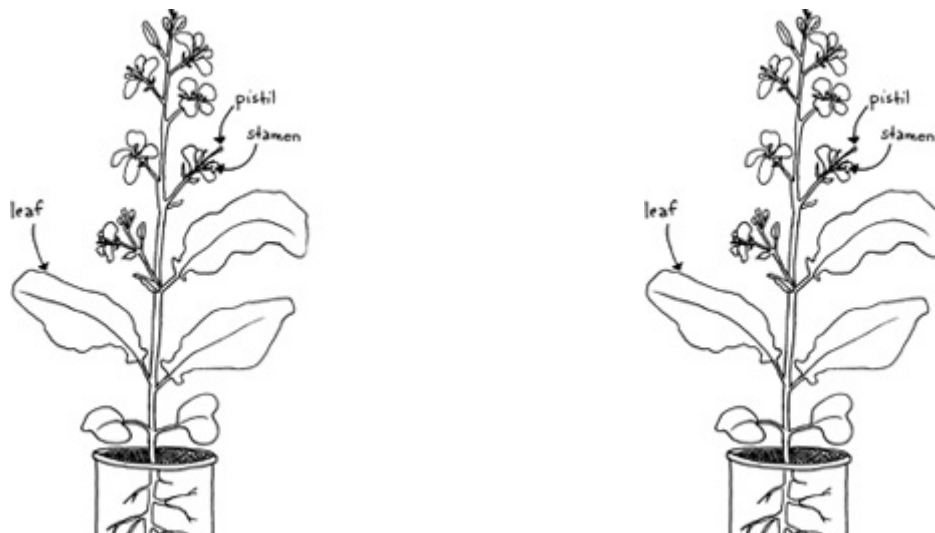
3. Predict what the offspring (filial generation) will look like by coloring the pictures below:
Filial generation 1:



a. Why do you think this?

2-4 days later:

4. Examine the stems of the plants grown using a magnifying glass and color the picture(s) of the plants below that were produced:



a. How many plants of that particular colored stem grew?

b. What percent of the offspring were each of the colored stems below?

Green:

Purple:

c. If (2) of the plants from this generation were crossed, what do you think their seeds would produce (in filial generation 2)? Why?