Plant Growth

Name:			
Date:			

What are the Various Parts of a Plant and Their Purposes?



Explore: What Do Stems Do?

Question

What is the purpose of the stem of a plant?

The **stems** of a plant are often the part of a plant that we use as food sources. The stem of a plant contains **xylem** and **phloem** tissues within it. You learned in previous activities that food items such as asparagus, rhubarb, and celery are the stems of plants. Look a little bit closer at the purpose of a stem of plant.

Hypothesis

Based on v	our prior	knowledge,	make an	educated	auess of th	ne answer	of the c	uestion a	bove.
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•	What is the purpose of the stem of a plant?



Skill Builder

How to make a hypothesis.

If you need to use this Skill Builder, access it from the online course.

Resources

two stalks of celery

food colouring

• two glasses, cups, or flower vases

Procedure

- Pour about one-half cup (125 mL) of water into each glass. The amount need not be exact, but it must submerge the **stem** of celery by several centimetres.
- 2 Drop five or six drops of food colouring to dye the water. Use a different colour for each cup. Use a bold and distinct colour so that it will show in the celery leaves.
- 3 Place a celery stalk (with leaves) in each glass and let them sit overnight.
- 4 Draw what you see in the first column of the observation table. Explain your drawing.
- In the morning, check your celery. Draw what you saw the next day in your observation table. Explain your drawing.

Observations

Observation Chart

Day 1: Attach an image or draw what you see at the beginning of the experiment.	Day 2: Attach an image or draw what you see at the beginning of the experiment.
Conclusion	
1 What is the purpose of a stem of a plant? Be (For example "The purpose of the stem of	

2	Is this the only purpose of the stem of a plant?	If no, what other purpose does the stem have?