

Plants in Space

Name _____ Date _____

Directions: Write your responses on this sheet or on separate paper.

1. What is *chlorophyll*, and why is it important to plants?



2. Imagine you want to grow a plant in a room with no windows. What kind of light would you use, and why?

3. What does a plant need to carry out photosynthesis? Draw a model of what happens.

4. If plants suddenly couldn't carry out photosynthesis, what would happen to them? What would happen to other living things, such as humans and other animals?

5. *Tropisms* are ways that plants react to an outside action, or *stimulus*. Identify the three types of tropisms described in the video. Then tell how you think a plant would react to growing in space with reduced gravity.