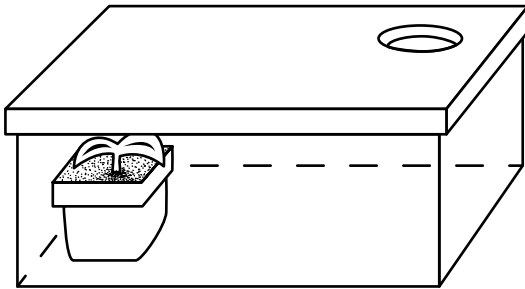


# A-Maze-ing Light

Name: \_\_\_\_\_ Date: \_\_\_\_\_

What do plants need to grow? Do they seek out what they need? Conduct an experiment to find out! You will build a maze for a bean plant to see what happens when a plant has minimal sunlight.

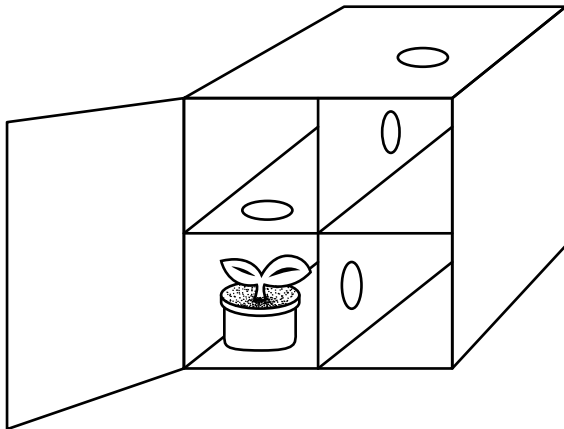
Sample 1



**1. Hypothesize:** Write down your predictions to the following questions in your **Garden Journal**.

- What do you think plants need to grow?
- Do you think plants change their growth to follow the sun?
- What would happen to a plant if sunlight were blocked?

Sample 2

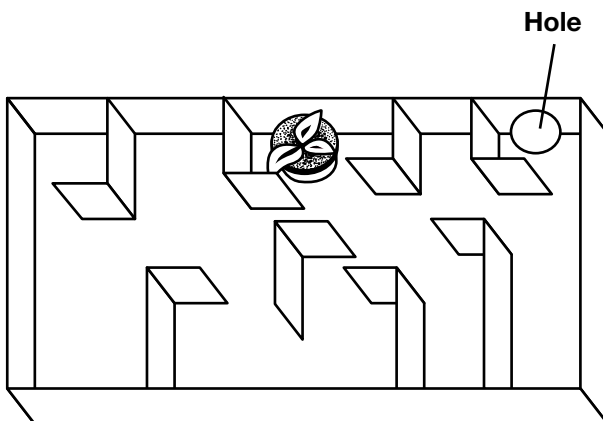


**2. Design your maze:** It does not need to be complicated to make the experiment successful. Study the mazes to the left. Then use cardboard to create your walls. Make sure there is a hole leading from the outside of the box to the inside. Water your plant before you place it in your maze. Cover the maze and position the box so that sunlight will shine into the box through the hole.

**3. Hypothesize:** What do you think will happen to the plant next week? In 2 weeks? Draw a “prediction growth picture” in your journal mapping the growth pattern you think your plant will take.

**4. Measure:** Check in on your maze every day. If the top of the soil is dry to the touch, add a little water. Measure and record the growth of your plant. Keep this data in your **Garden Journal**.

Sample 3



**5. The results:** At the end of the experiment, do a final measurement of the growth of your plant. Write down the results. How do the results compare to your hypothesis? Why do you think it grew the way it did? What can you conclude based on this experiment?

**6. Graph, chart, or map your experiment results.** Then have an A-Maze-ing Plant display! Decorate and color the outside of your mazes.