

Name: _____

Date: _____



Week 4 - Plants

Materials:	Amount:
Mustard Seeds	Sprinkle liberally
Trays	1
Construction Paper	4 pages
Cardboard	1 divider
Soil	1 $\frac{1}{2}$ inch layer per tray
Paper towels	6 sheets per tray
Water	Sprinkle liberally
Tape	1 roll

Procedure:

1. Line bottom of trays with 2-3 layers of water soaked paper towels.
2. Pour a $1\frac{1}{2}$ inch layer of soil on top of the towels.
3. Use a cardboard divider to divide the tray into 2 halves.
4. Sprinkle mustard seeds liberally on soil. Ask a SCout for the right amount!
5. Sprinkle water liberally on the soil. Ask a SCout for the right amount!
6. Tape construction paper over one half of the tray. This is the Dark Garden half.
7. Leave the other half of the tray open to light. This is the Bright Garden half.
8. Place both trays next to a window or any light source. Observe changes over the week!

All About Plants

Plants are the foundation of many land environments and food webs. Plants get their energy from **sunlight**, **water** & **nutrients** from the **soil**, and **carbon dioxide** from the air. People need plants because through **photosynthesis**, plants give off **oxygen**, which is what we breathe. On the other hand, plants need us because we give off **carbon dioxide**.

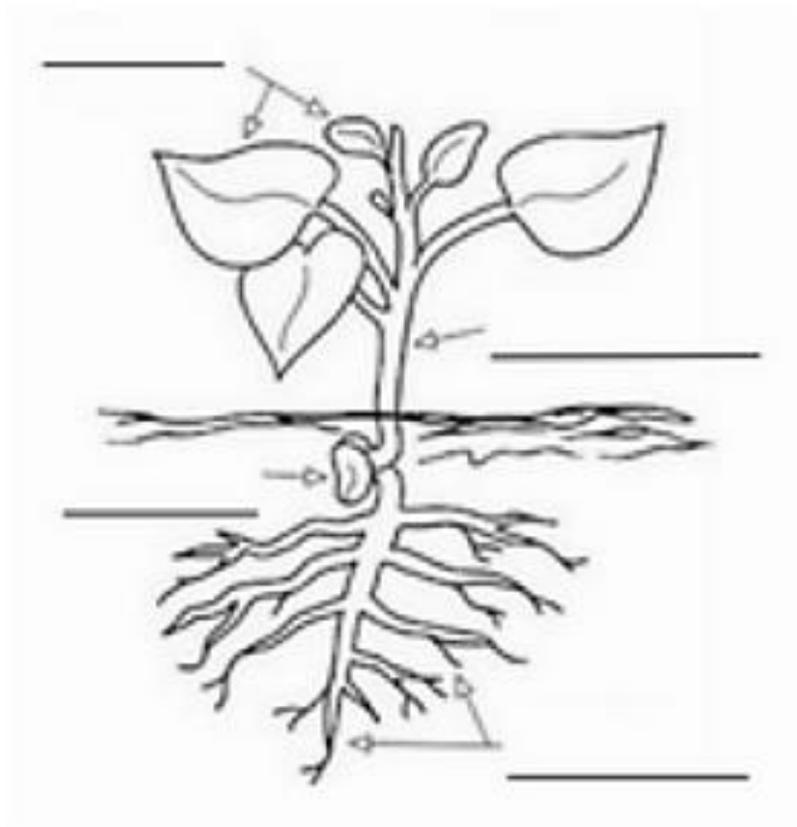


Question 1: Today, you will be growing mustard plants in the **light** and in the **dark**. Which plants - in the **light** or in the **dark** - do you expect to grow "better"? What will each look like?

Plant Anatomy

A plant has different parts. First, the **roots** of a plant allow it to absorb water and nutrients from the soil. Second, **seeds** are what protect a baby plant until it has enough water and sunlight to grow. Third, the **stem** of a plant is what sticks up from the ground and brings whatever the roots absorb to the other parts of the plant. Fourth, **leaves** on a plant collect sunlight and carbon dioxide from the air.

Question 2: Using the terms from above, label the parts of the plant shown below.



Bonus Question: Think like a scientist!

Where does most of the photosynthesis happen in a plant?

