

BUFFALO PUBLIC SCHOOLS
Department Of Science Education
333 Clinton Street
Buffalo NY 14204

BPS
TEAM
Science

FIRSTHAND LEARNING, INC
Science Materials Center
2495 Main St., Suite 550
Buffalo, NY 14214

Dear Teacher

For this unit on Plant Growth and Development, there are now pdf files available for you to download. These files are: a drawing of a flower, and a drawing of a bee, and the grow light assembly diagram. These will assist you in the facilitation of this unit.

A set of transparencies for the plant and bee drawings can be made available to you upon request.

Thank You

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Dear Family,

In our science class, we are studying Plant Growth and Development. Your child will observe the life cycle of a plant from seed to seed. We are providing the following activity to help enhance your child's learning experience. We would like you to help your child with this activity.

➤ Enclosed please find:

- ✓ Activity Sheets with directions
- ✓ Science journal

Please read and preform the following activity with your child. The class will share their findings on_____. your child should return their journals daily. If you have any questions, please contact me.

Thank you

How Can Plants Grow From Small Parts?

➤ What you need:

- ✓ A clear plastic container
- ✓ Some leaves from plants. For example, geraniums, daisies, African violets, ivy, spider plants, etc.
- ✓ A pair of scissors
- ✓ Plastic wrap
- ✓ A rubber band
- ✓ A pen or pencil
- ✓ Water
- ✓ Your science journal

➤ What you will need to do:

1. Carefully cut several leaves from the plant you have chosen. If you do not have a plant ask your neighbor or a relative to provide one.
2. Using the scissors, cut the stem diagonally so about 4 centimeters of it are left attached to the leaf.
3. Fill a jar with water then stretch the plastic wrap over the mouth of the jar.
4. Place a rubber band around the top of the jar to hold the plastic wrap in place.
5. Using your pencil, carefully make small holes in the plastic wrap then place the leaf cuttings in so the ends are under the water.
6. Record, illustrate and date on day one. Continue to date and record observations as changes occur.

Grow Light Set Up Instructions

Important Safety Note: The edges and corners of the shop light are sharp. Point this out to your students and take it into account when deciding where to set up your system.

1. Push one end of the side piece B firmly into opening of t-joint in base A. Repeat with other B and A. Then push the other end of each side piece B firmly into the cross bar C to complete the support frame (figure 1).

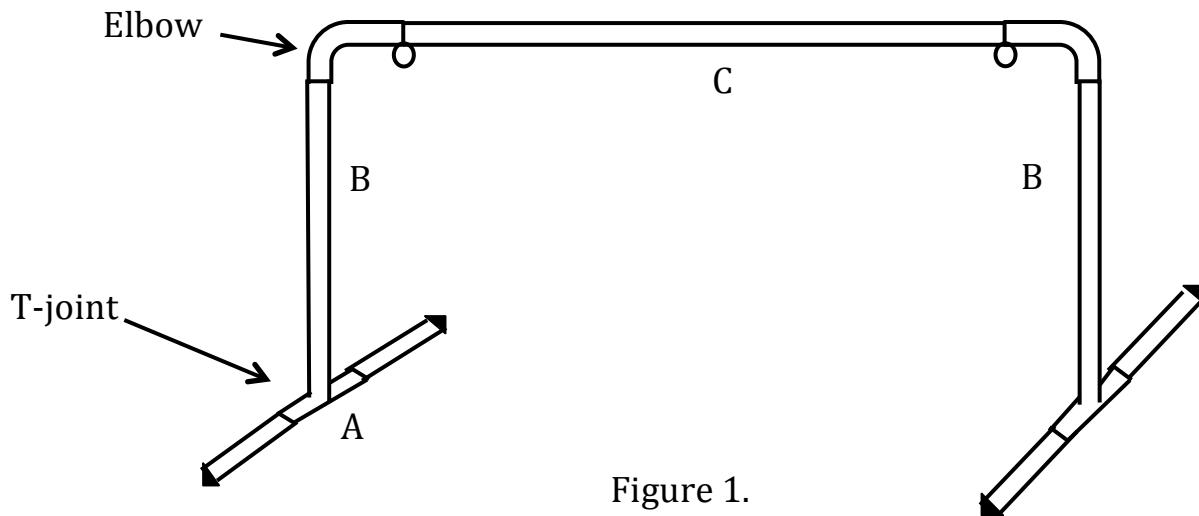


Figure 1.

2. Attach the light bank to the support frame using the two chains and four S-hooks provided, (figure 2).

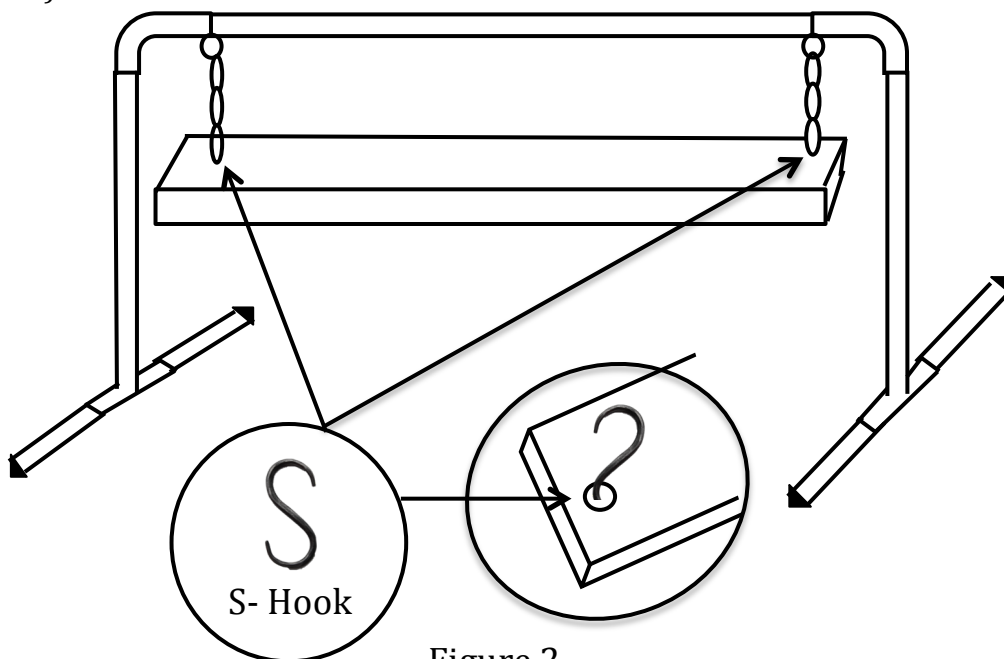


Figure 2.