

# Lab Sheet

## Environmental Factors: Light Effect on Plant Growth

**Introduction:** Living things in an environment respond to other factors in that environment. This activity enables the student to see how light might affect the growth response of a plant.

### Materials:

- Radish Seeds
- Potting soil
- Small Styrofoam cups
- Metric ruler
- Graph paper
- Small boxes
- Red, Green, and Clear transparent plastic wrap

### Procedure:

- Divide the class into working groups and give each group an identifying number.
- Each group will prepare 3 pots with potting soil.
- Students will plant 15 seeds just below the surface of the soil in each pot. Water equally.
- Allow 3 days for germination and initial development.
- After the three-day period, place the three pots next to each other. Select 5 plants from each pot by weeding out the rest. **Make sure all the remaining plants in the pots are the same size.**
- At the end of this selection process, you should have 3 pots with 5 plants in each.
- Label each pot: 1A, 1B, and 1C.
- Measure the height of each plant in centimeters and record the average height for each pot in the chart below.
- Place 1A in a box and cover it with red transparent wrap.
- Place 1B in a box and cover it with green transparent wrap.
- Place 1C in a box and cover it with clear transparent wrap.
- Place the boxes in the sunlight and measure the growth of the plants for 5 days. Record your data in the chart below.
- Graph the data after the 5-day trial period.

**Table 1**

Day	Pot A	Pot B	Pot C
1			
2			
3			
4			
5			