

Name \_\_\_\_\_

## **Lab Sheet**

### **What do I like, MILD, HOT or COLD?**

***Objective:***

Students will contrast the growth of plants grown in environments with different temperatures.

***Materials:***

- Three cups or 4 inch pots per lab group
- Potting soil
- Bean seeds or any seed of choice
- Ruler
- Thermometers

***Procedure:***

1. If using cups, puncture the bottom of each cup to allow for the drainage of excess water.
2. Label the pots. Fill the pots or cups with potting soil. Firm the soil and add more to bring it level with the top of the pots or cups.
3. Plant three bean seeds one half inch deep in the center of each pot or cup. Water thoroughly.
4. Place one pot in an area of room temperature (70–78°F), one in a warm area (above 78°F), and the third where temperatures are cool (below 70°F).
5. All three containers should receive bright light. Different areas in a greenhouse would work well. A hot pad could be used to provide the additional heat for the warm conditions.
6. Locate thermometers at the plant level in each area. Water the containers thoroughly when they approach drying.
7. When the seedlings are about 5 centimeters tall, remove two plants by pinching the stems.
8. Observe the plants every day. Record the temperatures, plant heights, and leaf counts every three days on the table provided.