

What's Needed

Procedure

- 1. Collaborate** Work with a partner. Measure the height of each of the four bean seedlings. Record the heights in the correct rows under *Day 1* in the chart below.

Seedling	Day 1	Day 3	Day 5	Day 7	Day 9
All					
No Air					
No Water					
No Light					

- 2. Experiment** Water the *All* and *No Air* seedlings. Put the *No Air* seedling inside a resealable bag. Close the bag. Put the *All*, *No Air*, and *No Water* seedlings in a sunny window.
- 3. Use Variables** Water the *No Light* seedling and put it inside a cardboard box. Close the box and put it where no light will reach the seedling.
- 4.** Check your seedlings every other day. Except for the *No Water* seedling, add water when the soil is dry.
- 5. Use Numbers** When you check your seedlings, measure and record the height of each in your chart.

Conclusion

Write the answers to the questions below.

- 1. Predict** For each seedling, make a line graph of your results. Predict how your graphs would change if you continued the experiment for another week.

- 2. Infer** What are three needs of plants? What happens to plants when their needs are not met?

Investigate More!

Design an Experiment Sketch several kinds of leaves and cut out each picture. Group the leaves by their similarities. Name each group and label the differences you observe within each group.

