Name _____ Date _____

Losing Water

Procedure

1. **Collaborate** Work in a small group. Record your observations in the chart below.

Time	Uncoated	Coated on Top	Coated on Underside	Coated on Both Sides
1 hour				
2 hours				
3 hours				
1 day				
2 days				

2. **Experiment** Carefully smear petroleum jelly on the top and underside of one of the plant leaves. Coat another leaf on the top surface only. Coat a third leaf on the underside only.

3. **Experiment** Slide a bag over each of the coated leaves and close it with a twist tie. Cover a fourth, uncoated leaf with a bag, to serve as a control. Place the plant in a sunny window and, if needed, water it.

4. **Predict** Based on what you have learned about leaf structure, predict what will happen inside each bag. Record your predictions on the lines below.

_____

_____

Use with page A61

5. **Record Data** Check the leaves every hour for three hours. Use the chart to record your observations.

Conclusion

Write the answers to the questions.

1. **Analyze Data** With others in your group, discuss your results. Consider different explanations.

_____

_____

_____

2. **Predict** Based on your results, discuss with your group what will happen if you leave the bags on the leaves for two more days. Give reasons for your prediction.

_____

_____

_____

_____

_____

3. **Experiment** Continue the experiment for two days or longer. See if your prediction holds true.

_____

Investigate More!

Design an Experiment Plan a similar experiment with a different kind of plant. For example, you might choose a cactus or an evergreen plant.