Name _____ Date _____

B.6.2
Directed Inquiry
Record

Away You Go!

S4CS5c

Procedure

1. **Experiment** Stack several books on top of one another. Place one end of a wooden board at the edge of the stack of books to form a ramp.

2. **Experiment** Hold a toy car at the top of the ramp. Do not push the car down the ramp. Allow it to roll by itself.

3. **Measure** Measure the distance from the top of the ramp to the front end of the car at the location where the car stopped rolling. Record this distance below.

   _____

4. **Compare** Repeat steps 2 and 3 using a wooden block instead of the toy car. Put the block onto the ramp, but do not push it down the ramp.

   _____

Conclusion

Write the answers to the questions below.

1. **Infer** You put the toy car and wooden block onto the ramp. What caused the car and block to move down the ramp?

   _____

   _____

   _____

Name _____ Date _____

2. **Compare** Which traveled farther—the toy car or the wooden block?

_____

3. **Hypothesize** State why you think the toy car and wooden block traveled different distances.

_____

_____

_____

_____

Guided Inquiry

Design an Experiment Repeat the experiment, but this time cover the ramp with a material such as sandpaper or plastic. How does the change in surface affect the distance traveled?