Student Name(s): ________________________________________  
Date: __________________

## Activity Sheet 1
How far does a ball roll downhill?

<table>
<thead>
<tr>
<th></th>
<th>Estimate</th>
<th>Actual</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 cm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 cm</td>
<td></td>
<td></td>
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<tr>
<td>15 cm</td>
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</tbody>
</table>

### Instructions:
1. Estimate and record how far the ball will roll from 5 cm.
2. Record Actual Length of Roll.
3. Subtract to find a difference.
4. Repeat for 10cm and 15cm.
Activity Sheet 1
How far does a ball roll downhill? (cont’d)

Discussion Questions:
1. Does slope affect the length of roll? Why or why not?

2. Did the ball go faster or slower when the slope was increased? Why?

3. Does the surface affect the roll of the ball?

4. How far would the ball roll from a 20 cm slope? From a 50 cm slope?

5. What would happen if the length of the runway is increased?