Ball Drop

Lesson: Forces and Motion

Materials Needed:
- Rulers or Yard stick
- Pencils
- Balls that bounce
- Graph paper

Steps:
- Have students get into groups of 3-4
- Distribute one ball to each group
- Students predict how high their ball will bounce from each of three heights—12”, 24” and 36”.
- Groups bounce their ball and measure the height of its bounce from different heights—12”, 24” and 36”; Students may bounce and measure twice to ensure accuracy.
- Students graph their data using a line graph to show the changes when their ball was bounced at different starting heights.
- Students also predict which type of ball will bounce the highest and why

<table>
<thead>
<tr>
<th>Drop Height</th>
<th>Predicted Bounce Height</th>
<th>Actual Bounce Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 Inches</td>
<td>_____ inches</td>
<td>_____ inches</td>
</tr>
<tr>
<td>24 Inches</td>
<td></td>
<td></td>
</tr>
<tr>
<td>36 Inches</td>
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</tbody>
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