**MATERIALS PAGE**

You will only have access to the following materials.

**Bottles:** You may only have a total of 4 bottles. Put the number of bottles you would like next to each bottle size. All numbers should add up to four.

<table>
<thead>
<tr>
<th>Bottle Size</th>
<th>Number of Bottles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small</td>
<td></td>
</tr>
<tr>
<td>Medium (Max 1)</td>
<td></td>
</tr>
<tr>
<td>Large (Max 1)</td>
<td></td>
</tr>
<tr>
<td>XLarge (Max 1)</td>
<td></td>
</tr>
</tbody>
</table>

**Plants:** Put the number of plants you would like next to each plant type.

<table>
<thead>
<tr>
<th>Aquatic Plant</th>
<th>Number of Plants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant 1 (original)</td>
<td></td>
</tr>
<tr>
<td>Plant 2</td>
<td></td>
</tr>
<tr>
<td>Plant 3</td>
<td></td>
</tr>
<tr>
<td>Plant 4 (Max 1)</td>
<td></td>
</tr>
<tr>
<td><em>You may only select if you are receiving the other 3 plants</em></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Non-Aquatic Plant</th>
<th>Number of Plants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tree Leaf 1</td>
<td></td>
</tr>
<tr>
<td>Tree Leaf 2</td>
<td></td>
</tr>
<tr>
<td>Flower 1 (Max 1)</td>
<td></td>
</tr>
<tr>
<td>Flower 2 (Max 1)</td>
<td></td>
</tr>
</tbody>
</table>

**Light Amount:** Put a check mark next to the amount of light that you would like to use.

<table>
<thead>
<tr>
<th>Light Amount</th>
<th>(Place a X here)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 5 (Full Light)</td>
<td></td>
</tr>
<tr>
<td>Level 4</td>
<td></td>
</tr>
<tr>
<td>Level 3</td>
<td></td>
</tr>
<tr>
<td>Level 2</td>
<td></td>
</tr>
<tr>
<td>Level 1</td>
<td></td>
</tr>
<tr>
<td>Level 0 (No Light)</td>
<td></td>
</tr>
</tbody>
</table>

**Animals:** You may only have a total of 4 animals.

<table>
<thead>
<tr>
<th>Animal Type</th>
<th>Number of Animal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Snail</td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td></td>
</tr>
<tr>
<td>Shrimp</td>
<td></td>
</tr>
<tr>
<td>Frog</td>
<td></td>
</tr>
</tbody>
</table>
QUESTION

If we change the ball temperature what will happen to the height the ball bounces?

**EXPERIMENTAL SET-UP**

<table>
<thead>
<tr>
<th>Changing Variable:</th>
<th>Trial A</th>
<th>Trial B</th>
<th>Trial C</th>
<th>Trial D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ball Temperature:</td>
<td>30 °C</td>
<td>40 °C</td>
<td>50 °C</td>
<td>60 °C</td>
</tr>
</tbody>
</table>

**Controls (variables you will hold constant):**

<table>
<thead>
<tr>
<th>Ball Material</th>
<th>Rubber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release Height</td>
<td>3 m</td>
</tr>
<tr>
<td>Ball Mass</td>
<td>623 g</td>
</tr>
<tr>
<td>Ball Circumference</td>
<td>88 cm</td>
</tr>
<tr>
<td>Ground Type</td>
<td>Cement</td>
</tr>
<tr>
<td>Ball Release</td>
<td>Drop</td>
</tr>
</tbody>
</table>
# NOTES ON PRESENTATIONS

*What variables affect the color of the solution?*

<table>
<thead>
<tr>
<th>Group 1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Changing Variable:</strong></td>
</tr>
<tr>
<td><strong>Color of the Solution:</strong></td>
</tr>
<tr>
<td><strong>Summary:</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Changing Variable:</strong></td>
</tr>
<tr>
<td><strong>Color of the Solution:</strong></td>
</tr>
<tr>
<td><strong>Summary:</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group 3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Changing Variable:</strong></td>
</tr>
<tr>
<td><strong>Color of the Solution:</strong></td>
</tr>
<tr>
<td><strong>Summary:</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Changing Variable:</strong></td>
</tr>
<tr>
<td><strong>Color of the Solution:</strong></td>
</tr>
<tr>
<td><strong>Summary:</strong></td>
</tr>
</tbody>
</table>
Group 5

<table>
<thead>
<tr>
<th>Changing Variable:</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Color of the Solution:</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Summary:________________________________________________________________________
________________________________________________________________________

Group 6

<table>
<thead>
<tr>
<th>Changing Variable:</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Color of the Solution:</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Summary:________________________________________________________________________
________________________________________________________________________