Exploration: Germination Experiment

Materials:

- Seeds
- Paper towels
- Zip lock plastic bags
- Spray bottles
- Labels or masking tape

Instruction:

1. Spray Paper towel with water until moist
2. Fold paper towel in half
3. Lay 10 seeds across the towel and roll up towel
4. Put in a plastic bag with the date labeled
5. Each day check to see how many seeds have germinated and record on your worksheet for one week.
## Worksheet

Record the number of seeds that have sprouted each day in the following table:

<table>
<thead>
<tr>
<th>Day</th>
<th>Number of seeds germinated</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
</tr>
</tbody>
</table>

Graph your data points each day on a line graph below:
Worksheet Questions:

What is germination?
_________________________________________________________________

At the end of the week, calculate the germination rate of your seeds:

How many seeds had germinated by day 7? ______________

How many total seeds did you have in your bag? _____________

Calculate the germination rate using the following equation:

Germination rate = \( \frac{\text{Number of seeds that germinated}}{\text{Total number of seeds in bag}} \)

My Germination Rate = ______________________

**If teachers would like students to collect and graph their data on Google Sheets, use this template [here](#).**