Marigold Experiment RESEARCH ORGANIZER

**Name:**

**Period:**

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| --- | --- |
| **Background Information** | *Research the following information about the plant you will be testing:*  Scientific name (Genus-species):  ***Tagetes patula***  Physical Description: **Orange-yellow-red bushy flower**  Germination time: **5-10 days**  Flowering time: **June - Frost**  Average height at full growth: **0.5 – 1.0 feet**  Other important details about this plant species: |
| **Control**  **&**  **Experimental Variable** | *Document all control variables that your plants will experience.*   1. **Marigold seeds** 2. **Miracle Grow Potting Soil** 3. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** 4. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** 5. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** 6. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** 7. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** 8. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**   *Choose ONE experimental variable you will test (From list on page 1) and record it here.*  Experimental Variable: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Experimental Variable Research** | *In a paragraph (5-10 sentences) describe what your experimental variable is and how it helps plants grow.* |
| **Experimental Question**  **&**  **Hypothesis** | *Write your experimental question as a statement by finishing the following sentence:*    The purpose of this experiment is to find out…  *Make a prediction about what will happen to your plants because of the experimental variable introduced. It should be consistent with the research done on your variable. If\_\_\_\_\_ then\_\_\_\_\_\_ because\_\_\_\_\_...* |
| **Materials** | *List the materials you will use in this experiment*   * *\_\_* * *\_\_* * *\_\_* * *\_\_* |
| **Experimental Setup** | *Describe your experimental setup and include the following:*   1. *How often will you water your plants and how much?* 2. *Identify the two kinds of measurements will you make and how you will measure this.*  * **Plant Height** * **Total area of two leaves**  1. *How often will you make measurements?* 2. *Any other important details about your experimental setup.* |