



Date: \_\_\_\_\_

**Experiment Title:**

Student's Name : \_\_\_\_\_

Parent's Name : \_\_\_\_\_

Parent's Email : \_\_\_\_\_

Parent's Phone : \_\_\_\_\_



**Purpose - Ask a Testable QUESTION:**

*Keep it simple, something you can do at home and measure, ideally with a number.*

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**Background RESEARCH:**

What are six things you learned relating to your topic? Use complete sentences.

1: \_\_\_\_\_

2: \_\_\_\_\_

3: \_\_\_\_\_

4: \_\_\_\_\_

5: \_\_\_\_\_

6: \_\_\_\_\_



**Independent Variable:**

*What is the one thing you want change in each trial?*

*\*Remember only one thing can change to be a fair test, everything else must be controlled.*

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**Forming a HYPOTHESIS (Taking your best guess):**

*What do you think will happen when you change your variable?*





Student's Name : \_\_\_\_\_  
(In case the pages are separated.)



Draw a picture of how your **EXPERIMENT** will be set up:  
*Be precise and use labels, we should have a clear idea what you will do.*



**Materials List:**

List everything: specific equipment, supplies, safety items and measuring tools.

- |          |           |
|----------|-----------|
| 1: _____ | 8: _____  |
| 2: _____ | 9: _____  |
| 3: _____ | 10: _____ |
| 4: _____ | 11: _____ |
| 5: _____ | 12: _____ |
| 6: _____ | 13: _____ |
| 7: _____ | 14: _____ |





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**Step-by-Step Plan:**

What are the steps to complete your experiment?

*\*Use complete sentences and include measurements and information needed to carry out your experiment precisely. It also needs to include multiple tests changing ONLY your independent variable.*

*We should be able to replicate your experiment based on your plan here.*

- 1: \_\_\_\_\_
- 2: \_\_\_\_\_
- 3: \_\_\_\_\_
- 4: \_\_\_\_\_
- 5: \_\_\_\_\_
- 6: \_\_\_\_\_
- 7: \_\_\_\_\_
- 8: \_\_\_\_\_
- 9: \_\_\_\_\_
- 10: \_\_\_\_\_
- 11: \_\_\_\_\_
- 12: \_\_\_\_\_
- 13: \_\_\_\_\_
- 14: \_\_\_\_\_
- 15: \_\_\_\_\_
- 16: \_\_\_\_\_
- 17: \_\_\_\_\_
- 18: \_\_\_\_\_
- 19: \_\_\_\_\_
- 20: \_\_\_\_\_
- 21: \_\_\_\_\_
- 22: \_\_\_\_\_
- 23: \_\_\_\_\_
- 24: \_\_\_\_\_
- 25: \_\_\_\_\_
- 26: \_\_\_\_\_
- 27: \_\_\_\_\_
- 28: \_\_\_\_\_
- 29: \_\_\_\_\_





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**Carry out the experiment as planned and Collect Data:**

Record the results on the T Chart below, or use another sheet of paper if needed.

Variable Changed:

Results / Measurement (remember to record your units)

- | Variable Changed: | Results / Measurement (remember to record your units) |
|-------------------|---|
| Test #1           |   |
| Test #2           |   |
| Test #3           |   |
| Test #4           |   |
| Test #5           |   |
| Test #6           |   |



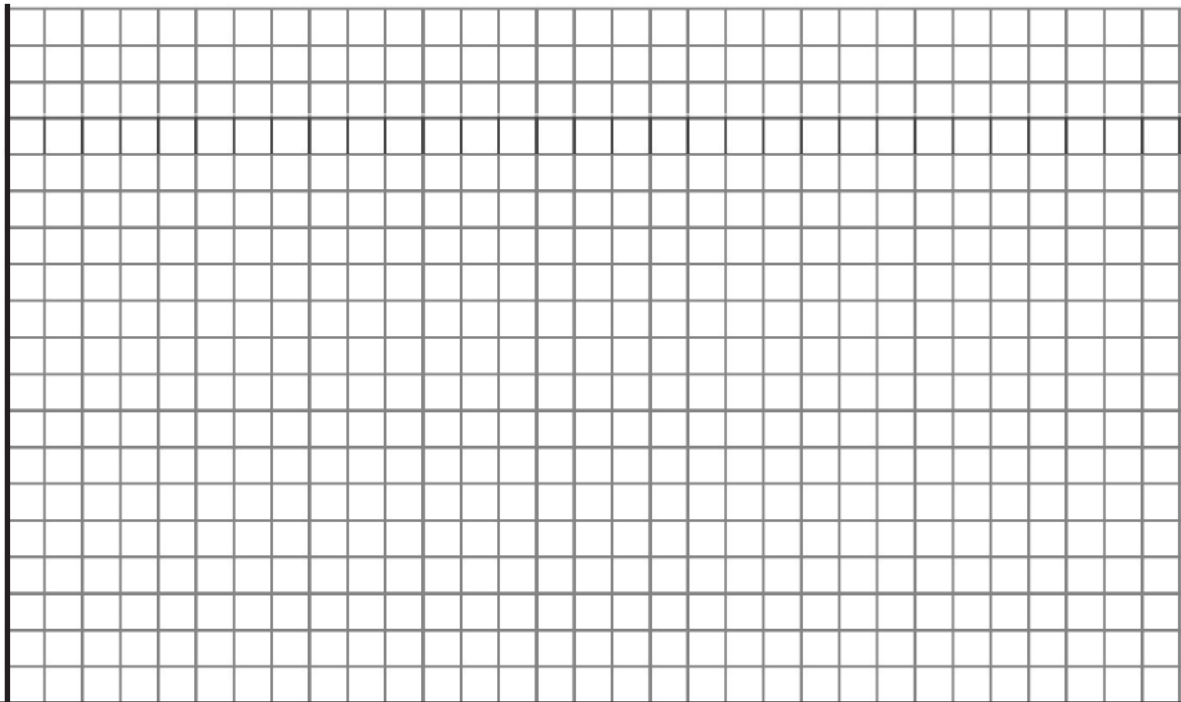
**Graphing:**

Please graph the data above with an appropriate graph.

*\*Remember to name the graph, label your units, decide on a range, etc. We made a couple of notes to help you get started. Make sure it is beautiful, precise, clean and clear, use another piece of graph paper instead if needed.*

Title: \_\_\_\_\_

Y Axis: Results / Measurements



X Axis: Tests / Independent Variable





Student's Name : \_\_\_\_\_  
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## Drawing CONCLUSIONS:

Examples: Which test had the biggest results? Which had the smallest results? What was your average result? Were there any outliers in your data, if so why? Did anything surprise you?

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## REPORT: Was your hypothesis correct? Why or why not?

*\*Please use complete sentences and DIRECTLY restate your hypothesis in your answer here.*

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**What would you do differently next time?**

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**What additional questions came to mind regarding this topic?**

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