

Name \_\_\_\_\_ DATE \_\_\_\_\_ Section \_\_\_\_\_

**THIS PAGE IS DUE ON: 09/16/24**

**HYPOTHESIS: AN EDUCATED PREDICTION ON WHAT THE OUTCOME OF THE EXPERIMENT WILL BE; BASED ON BACKGROUND RESEARCH**

**Directions: write out your hypothesis for your science fair project on the lines below.**

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**Hypothesis Self-Grading Checklist: Check the box if your hypothesis meets the criteria being described.**

- ☐ the hypothesis predicts what will happen to each test group
- ☐ the hypothesis supports the prediction with what was learned from the background research



**Remember you must print it out!**

**VARIABLES: OUTLINES HOW THE EXPERIMENTAL SET-UP WILL BE CONTROLLED. THERE ARE FOUR VARIABLES:**

- Independent Variable: the one characteristic that is different between all test groups
- Dependent Variable: the measurements being made / data being collected
- Constants: all the characteristics that will remain the same between the test groups
- Control Group: the one test group that is under normal conditions

**Directions: write out your variables for your science fair project. All experiments must have all four variables identified.**

★ Independent Variable:

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★ Dependent Variable:

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★ Constants:

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★ Control Group:

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**Variables Self-Grading Checklist: Check the box if your variables meet the criteria being described.**

- I only have one independent variable
- the independent variable identifies what is different between my test groups
- the dependent variable identifies what is going to be measured as the experiment is done
- the constants list all characteristics that will be the same amongst all test groups
- the control group identifies the one test group that is under normal conditions



**Remember you must print it out!**