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.
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
$\hfill \square$ the hypothesis supports the prediction with what was learned from the
background research



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

- Independent Variable: the <u>one</u> characteristic that is different between all test groups
- Dependent Variable: the measurements being made / data being collected
- Constants: <u>all</u> the characteristics that will remain the same between the test groups
- Control Group: the <u>one</u> 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:	
*	Dependent Variable:	
*	Constants:	
	Control Group:	
Variat	oles Self-Grading Checklist: Check the box if your variables meets 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	

