HOW TO WRITE A GOOD HYPOTHESIS USING "IF ... THEN ... BECAUSE

An "If... then...because" statement in a hypothesis tells the readers what you believe will happen in an investigation when something is changed, so you can see the effect of the change.

- IF...tells the readers what will be changed. This is the independent variable in the investigation.
- THEN... tells the reader what will happen because of the change (independent variable) described in the If... statement. This is the dependent variable in the investigation.
- BECAUSE... tells the reader how you know this will occur. It should be based on something you have experienced, or perhaps something you infer.

Examples:

- If 7th graders and 8th graders complete the same math problems, then the 8th graders will have more answers correct, because they have studied math for one year longer than the 7th graders.
- If dry bread and moist bread are left in bags for two weeks, then the moist bread will grow mold more quickly than the dry bread, because mold is a living organism, and organisms need water to survive.
- If some students eat breakfast before school and others do not, then the ones who do eat breakfast will have better grades in their morning classes, because their brains have more energy to think.

Now, let's try this together. To warm up, identify the three types of variables below. Then use the variables to make a good hypothesis.

1. Melissa raises crickets at her pet store that she sells for reptile food. She thinks that

a. Independent variable	
b. Dependent variable	
d. Controlled variable	
othesis: If	(independent variable) the
	(dependent variable),
cause	

_(independent variable) then

(dependent variable),

Hypothesis: If _____

because	
anymore. She thinks that she can bike furt	ntain bike for miles and miles until she can't bike her when she drinks more than a liter of water befor g a hypothesis, so she can make the best of her
Hypothesis: If	(independent variable) then
Jensinson verses mins Intelligation	(dependent variable),
because	SUPERIOR DESCRIPTION OF STREET STREET,
he tends to get lower grades when he does we basketball and not science. He's decided to he works with Joe or if they're higher when	Th grade science class labs. However, he notices that work with Joe, because he and Joe like to talk about investigate if his science lab grades are higher when he works with someone else. He has set goals to e help him write a hypothesis for his study?
Hypothesis: If	(independent variable) then
because	(dependent variable),
though they are all in the same class. He wo	vide range of grades that students get on tests, even onders whether students, who study for 20 minutes tests or not. Mr. Montanari wants as many kids to be e a hypothesis about this problem.
Hypothesis: If	(independent variable) then
	(dependent variable),
because	sloninos ballos troix o
	standay halloctude b