## **Independent and Dependent Variables Practice Worksheet**

**Topic: Developing Investigations Homework** 

Review: Fill in the vocabulary term on the left for each description on the right.

Neview. I ill ill the vocabula	ary term on the left for each description on the right.	
	<ul> <li>I can make changes to this variable.</li> <li>This is the only thing that should be changed in an experiment.</li> <li>It is like the cause in cause and effect.</li> <li>To find the IV, I can ask, "What am I changing?"</li> </ul>	
	<ul> <li>I will collect data from this variable.</li> <li>It is like the effect in cause and effect.</li> <li>To find the DV, I can ask, "What am I measuring or looking for?"</li> </ul>	
	An educated guess, or prediction	
	Should be written as an "If, Then, Because" statement.  O If the	
Practice: Read the information about each experiment and record the independent variable (IV) and dependent variable (DV). Then write a hypothesis for each experiment. Be sure to use an "If, Then, Because" statement.		
1. Will an egg float higher in water with more salt?		
IV: DV: Hypothesis:		
2. Ivan and Braxton want to know if a stretching a rubber band at different lengths affects how far the rubber band will fly. They will use centimeters for all measurements.		
IV: DV: Hypothesis:		

3.	will a paper airplane with longer wings fly fartner than shorter wings?
	IV:
	DV:
	Hypothesis:
4.	Will a plant grow higher with more light?
	IV:
	DV:
	Hypothesis:
	. Type and see
	Billy and Bob want to know if the amount of baking soda added to vinegar will affect the
	ight a rocket will launch. They will measure the baking soda in milliliters. The will measure
tne	e height of the rocket launch in meters.
	IV:
	DV:
	Hypothesis:
6	Cario and Heather wanted to know if the size of a sain will affect the number of drane of
	Carie and Heather wanted to know if the size of a coin will affect the number of drops of ter it can hold. So they used a dropper to place water on a quarter, nickel, and penny.
wa	ter it can floid. To they used a dropper to place water on a quarter, meker, and permy.
	IV:
	DV:
	Hypothesis:
<b>7</b> . I	wonder if the amount of homework I complete has an affect on my science test scores?
	IV:
	DV:
	Hypothesis:
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