**Scientific Method and Experimental Design Group Names\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Define the following terms.**

1. Hypothesis:
2. Independent Variable:
3. Dependent Variable:
4. Experimental Group:
5. Control Group:
6. Controlled Variables (a.k.a. constants):

Identify the above terms (a-f) in each scenario below.

1. Does Rogaine really improve hair growth?
	1.
	2.
	3.
	4.
	5.
2. Does estrogen increase the milk yield of dairy cows?
	1.
	2.
	3.
	4.
	5.
3. Does the size of a fish tank determine how large a fish will grow?
	1.
	2.
	3.
	4.
	5.
4. Will crickets chirp more if the temperature is warmer?
	1.
	2.
	3.
	4.
	5.
5. Now, design an experiment of your own. Choose a topic that interests you and begin by asking a question. Form a hypothesis that is logical and testable. Complete a-f.
	1.
	2.
	3.
	4.
	5.