**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?
2. Does estrogen increase the milk yield of dairy cows?
3. Does the size of a fish tank determine how large a fish will grow?
4. Will crickets chirp more if the temperature is warmer?
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.