Scientific Method Scenarios

Name: _____

Biology

Date: _____   Hour: _____

(adapted from www.biologycorner.com)

Complete the following table for each scenario listed. Design and experiment to answer the experimental question being proposed. Be as detailed as possible with your responses. You may talk to the members of your table to get assistance if needed.

	Independent Variable	Dependent Variable	Control Group	Possible Outcomes	Type(s) of data to be gathered
Does the color of light affect a plant's growth?					
Does tomato juice make hair grow faster?					
Is acid rain causing a decline in frog populations?					
Does the size of a fish tank determine how large a fish will grow?					
Does Tylenol keep cut roses fresher longer?					

Do wounds heal faster when they are covered with Band-aids?				
Which battery lasts longer: Energizer or Duracell?				
Does hot water freeze faster than cold water?				
Do tanning beds cause skin cancer?				
What causes leaves to fall in autumn (light, temperature, or both)?				
Will crickets chirp more if the temperature is warmer?				