



Caption: _____

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Scientific Method Activity

For this activity you are the scientist. This means that you and your group are responsible to ask a question, develop a hypothesis, design an experiment, conduct the experiment, and reach a conclusion based on your question and hypothesis. We will provide you with some materials to perform your experiment; however the question you will be answering is up to you. Below is a list of materials, feel free to use a few or as many as needed to answer your question. Before you begin your experiment you must show your experimental design to Ms. Farmer or Mr. Jennings for approval. For full credit you must completely fill out the worksheet using complete sentences. For the data page, you may not need all of the data boxes, if you do not need all the boxes then leave the unused boxes blank. For the results page, you must include at least one graph and at least one summary table (not your raw data). The graph must be colored and have a labeled X and Y axis, a title, a key, and a caption explaining what is shown on the graph. The summary table must also include a caption to explain what the table means. Your conclusion section should answer all of the questions on the worksheet and describe in detail why your hypothesis was correct or incorrect and what you need to do for your next experiment. Good luck!

Diet Cola	Regular Cola	Lemon-Lime Soda	Diet Lemon-Lime Soda
Tonic Water	Diet Tonic Water	Seltzer Water	Mentos (mint-flavored)
Mints	Mint-Flavored Gum	Mentos (fruit flavored)	Dish Soap
Fruit-Flavored Gum	Water		

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