

Name _____

Period _____

The Scientific Method on TV? Finding the Steps in "MythBusters"

As you watch the episode of "MythBusters" on Diet Coke and Mentos, fill in the following grid to show which steps of the Scientific Method the show follows.

STEP	How Episode/Characters Illustrate the Step
Observations (What do you see about this experiment?)	
Hypothesis (Give your prediction - what really causes the reaction?)	
Experiment For each experiment they do, indicate the independent variable, the control, and the experimental group.	What is the dependent variable used throughout this experiment? <u>Diet Coke Experiments</u> Experiment #1: Ind. Variable: Control Group: Experimental Group: Results: Experiment #2: Ind. Variable: Control Group: Experimental Group: Results: Experiment #3: Ind. Variable: Control Group: Experimental Group: Results: Experiment #4: Ind. Variable: Control Group: Experimental Group: Results:

	<p>Experiment #5: Ind. Variable: Control Group: Experimental Group: Results:</p> <p>Experiment #6: Ind. Variable: Control Group: Experimental Group: Results:</p> <p><u>Mentos Experiments</u></p> <p>Experiment #1: Ind. Variable: Control Group: Experimental Group: Results:</p> <p>Experiment #2: Ind. Variable: Control Group: Experimental Group: Results:</p> <p>Experiment #3: Ind. Variable: Control Group: Experimental Group: Results:</p>
<p>Conclusion (Were you right?)</p>	
<p>Application (What were they able to accomplish with this knowledge?)</p>	