

Physics

Identifying Parts of the Scientific Method

Name: _____ Block: _____

For each situation/experiment described, identify the independent variable, dependent variable, control group, and experimental group.

Dr. Bunsen Honeydew and his assistant Beaker have been working on a cure for Fozzie's bad jokes. After trying to teach Fozzie new jokes, they gave up and decided they had to approach the problem from a different point of view, that of the audience. They have created a formula that looks like water, tastes like water, and is odorless like water. Before Fozzie's show, Bunsen and Beaker split the audience in half. The left side of the audience (group A) was given a bottle of water and asked to drink it all before the show started. The right side of the audience (group B) was given a bottle of the formula and was also asked to drink it all before the show started. After the first few jokes, Fozzie was hit by seven tomatoes, heckled by Waldorf and Statler (as usual), and booed; all by the left side of the audience (group A). The right side of the audience (group B) didn't notice the booing or tomatoes because they were too busy laughing at Fozzie's jokes.



Homer notices that his shower is covered in a strange green slime. His friend Barney tells him that coconut juice will get rid of the green slime. Homer decides to check this out by spraying half of the shower with coconut juice. He sprays the other half of the shower with water. After 3 days of "treatment" there is no change in the appearance of the green slime on either side of the shower.

