


Simpsons Scientific Method

Read the following experiment details and figure out what is being tested, what the control group (unchanging standard for reference) is, what the experimental group (the group being tested on) is, and what conclusions you would draw based on the details given.

| Details of Experiment | Questions |
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|  <p>Mr. Smithers believes that a special juice will increase the productivity of workers. He creates two groups of 50 workers each and assigns each group the same task (in this case, they're supposed to staple a set of papers). Group A is given the special juice to drink while they work. Group B is not given the special juice. After an hour, Mr. Smithers counts how many stacks of papers each group has made. Group A made 1,587 stacks, Group B made 2,113 stacks.</p> | <p>What is being tested?</p> <p>What is the control group?</p> <p>What is the experimental group?</p> <p>What should Smithers' conclusion be?</p> |
|  <p>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 plain water. After 3 days of "treatment" there is no change in the appearance of the green slime on either side of the shower.</p> | <p>What is being tested?</p> <p>What is the control group?</p> <p>What is the experimental group?</p> <p>What should Homer's conclusion be?</p> |

Bart believes that mice exposed to microwaves will become extra strong (maybe he's been reading too much Radioactive Man). He decides to perform this experiment by placing 10 mice in a microwave for 10 seconds. He compared these 10 mice to another 10 mice that had not been exposed. His test consisted of a heavy block of wood that blocked the mouse food. He found that 8 out of 10 microwaved mice were able to push the block away. 7 out of 10 of the non-microwaved mice were able to do the same.



What is being tested?

What is the control group?

What is the experimental group?

What should Bart's conclusion be?



Krusty was told that a certain itching powder was the newest and best thing on the market; it even claims to cause 50% longer lasting itches. Interested in this product, he buys the itching powder and compares it to his usual product. One test subject (A) is sprinkled with the original itching powder, and another test subject (B) was sprinkled with the Experimental itching powder. Subject A reported having itches for 30 minutes. Subject B reported to have itches for 45 minutes.

What is being tested?

What is the control group?

What is the experimental group?

What should Krusty's conclusion be?



Read the following scientific problem and come up with your own experiment that Lisa Simpson could do in her very own home. Make sure to identify what is being tested, the control group, experimental group, and any other details of the experiment including length of experiment, test subjects, etc.

Lisa is working on a science project. Her task is to answer the question: "Does Rogooti (which is a commercial hair product) affect the speed of hair growth". Her family is willing to volunteer for the experiment.