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Hypothesis

Name

Class

Scientific Method – Creating the Hypothesis, Defining Variables

These problems may or may not be easy to test in a class setting, but they are testable. Your job is to write the problem as a **hypothesis** and then define what will be the Manipulated/Dependent Variable, Responding/Independent Variable, and (many) Controlled Variables. Answers will vary.

1) Problem: What is the relationship between sunscreen and sunburn?

Hypothesis

Manipulated/Dependent Variable

Responding/Independent Variable

Controlled Variables

2) Will wearing flipflops make me a faster person?

Hypothesis

Manipulated/Dependent Variable

Responding/Independent Variable

Controlled Variables

3) Are those new double-pane windows better at keeping my house the right temperature?

Hypothesis

Manipulated/Dependent Variable

Responding/Independent Variable

Controlled Variables

Hypothesis Worksheet

Directions: Take the following inferences and turn them into formal hypotheses.

Formal Hypothesis Format:
If responding variable is related to manipulated variable, then prediction (with explanation).

1. Chocolate may cause pimples

Manipulated variable: Responding variable:

Formal hypothesis:

2. Salt in soil may affect plant growth.

Manipulated variable: Responding variable:

Formal hypothesis:

3. Plant growth may be affected by the color of the light.

Manipulated variable: Responding variable:

Formal hypothesis:

4. Bacterial growth may be affected by temperature.

Manipulated variable: Responding variable:

Formal hypothesis:

5. Ultraviolet light may cause skin cancer.

Manipulated variable: Responding variable:

Formal hypothesis:

6. Temperature may cause leaves to change color.

Manipulated variable: Responding variable:

Formal hypothesis:

the scientific method

question

research, observation

hypothesis

experiment

manipulate

respond

procedure

results

conclusion

new questions lead to new data

Name

Date

Scientific Process

Question

What do you want to know (based on what's known)?
I wonder?

?

Hypothesis

Make a prediction
If you _____, then _____ will happen.

?

Experiment

Design your test
Gather and prepare materials

Data Collection

Conduct your experiment
Gather and record your data
Observe what happened

Conclusion

Analyze data
Did results support or refute my hypothesis
Compare results to what's known
Share results

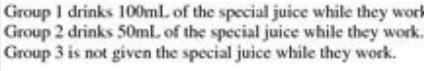
My hypothesis was _____

I learned _____

Scientific Process Worksheet

PL, October 2014

Name: _____
Period: _____ Date: _____



Smithers thinks that a special juice will increase the productivity of workers. He creates three groups of 50 workers each and assigns each group the same task, to staple sets of papers.

Group 1 drinks 100mL of the special juice while they work.
Group 2 drinks 50mL of the special juice while they work.
Group 3 is not given the special juice while they work.

After an hour, Smithers counts how many sets of papers each group stapled. He made the data table below.



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 there is no change in the appearance of the side of the shower.



Krusty was told that a new itching powder 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 (B). Another test subject (B) was sprinkled with the new experimental itching powder. His results are below.

Identify the:

1. Independent variable:
2. Dependent Variable:
3. Controlled variable:
4. What should Smithers' conclusion be? How did the juice affect the number of papers each group stapled? Use data (numbers) to support your answer.

Identify the:

1. Independent Variable:
2. Dependent Variable:
3. What is a hypothesis Homer can write about his observation?

If
then
because

Identify the:

1. Independent Variable:
2. Dependent Variable:
3. What should Krusty's conclusion be? Use data (numbers) to support your answer.

5. How could Krusty improve his experiment?

See if your child or children like to use the scientific method to conduct their own experiences. When creating your hypothesis, use your search and observations to form your assumption. This returned for the first steps of a new experiment, where you make an observation and asks a question and then begins a new experience using the steps of the scientific method. In this experiment, water, sun, and the type of seed are our subsidiaries (or variable â

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