Physical Science –	Name
Unit: Scientific Method	Period
Scientific Method Simpson Worksheet	
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two groups of 50 workers each and assign supposed to staple a set of papers. Group work. Group B is not given the special juic	increase the productivity of workers. He creates as each group the same task -in this case, they're A is given the special juice to drink while they ce. After an hour, Smithers counts how many oup A made 1,587 stacks and Group B made 2,113
Control Group	Independent Variable
Dependent Variable	What should Smithers conclusion be?
Kandhada a kana a k	in a contract of the part of the regions and the contract of t
tells him that coconut juice will get rid of by spraying half of the shower with cocon	red in a strange green slime. His friend Barney the green slime. Homer decides to check this out nut juice. He sprays the other half of the shower tere is no change in the appearance of the green
What was the initial observation?	Control Group
	and promise to a confirmation of
Independent variable	Dependent variable
What should Homer's conclusion be?	The second of th

3. 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 the microwave for 10 seconds. He compared these 10 mice to another 10 mice that have not been exposed to radiation. His test consisted of a heavy block of wood that blocked the mouse food. He found that 8 out of 10 of the microwaved mice were able to push the block away. Seven out of 10 of the non- microwaved mice were able to do the same thing.

Identify the Control Group	Independent Variable
Dependent Variable	What should Bart's conclusion be?
How could Bart's experiment be improved?	
	ger lasting itches. Interested in this product,
The itching powder claims to cause 50% long he buys the itching powder and compares it sprinkled with the original itching powder and the experimental powder. Subject A reported reported having itches for 45 minutes. Identify the	ger lasting itches. Interested in this product, to his usual product. Test Subject A is nd another Test Subject B was sprinkled witl d having itches for 30 minutes and Subject B
The itching powder claims to cause 50% long he buys the itching powder and compares it sprinkled with the original itching powder as the experimental powder. Subject A reported reported having itches for 45 minutes.	to his usual product. Test Subject A is nd another Test Subject B was sprinkled witl

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

Control Group	Experimental Group
Independent Variable	Dependent Variable

Data to be collected?

Physical Science -	7/8
Unit: Scientific Met	hod

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Scientific Method Simpson Worksheet

1. Smithers thinks 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, Smithers counts how many stacks of paper each group has made. Group A made 1,587 stacks and Group B made 2,113 stacks.

Identify the -

Control Group B	Independent Variable
Dependent Variable Stapled Stacks	What should Smithers conclusion be? Hypoth false Juice lowered productivity

2. 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.

Identify the

What was the initial observation?	Control Group
Green slime	1/2 of shower treated w/
Independent variable	Dependent variable
coconut juice	Dependent variable treatment of slime "slime removal"
What should Homer's conclusion be?	Barneylis
the coconut juice in	effective. Hypoth false

3. 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 the microwave for 10 seconds. He compared these 10 mice to another 10 mice that have not been exposed to radiation. His test consisted of a heavy block of wood that blocked the mouse food. He found that 8 out of 10 of the microwaved mice were able to push the block away. Seven out of 10 of the non-microwaved mice were able to do the same thing.

Identify the

Control Group

Non-microwaved mice

Dependent Variable

extra strength

How could Bart's experiment be improved?

Larger Sample size

Independent Variable

Microwave

Microwave

Microwave

Microwaves might help

4. Krusty was told that a certain itching powder was the newest best thing on the market. The 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. Test Subject A is sprinkled with the original itching powder and another Test Subject B was sprinkled with the experimental powder. Subject A reported having itches for 30 minutes and Subject B reported having itches for 45 minutes.

Identify the

Subject A	New itching powder
Dependent Variable duration of itching	What should Krusty's conclusion be? The itching powder claim is correct.
Explain whether the data supports the adverted of 30 minutes is	tisement claims about its product? 5 min. 30 + 15 = 145 min

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

Control Group No happy hair - (Marge & Bart)	Experimental Group Happy hair - Homer & Maggie
Independent Variable Happy hair	Dependent Variable Hair growth
Data to be collected?	

Speed of hair growth.