






QUESTIONS

<i>Measureable Word</i>	<i>Measures</i>	<i>Tool</i>	<i>Unit</i>
			
			
			
			
			

time *mass* *coldest* *length* *fastest* *cm/m/km*
mL *biggest* *heaviest* *sec/min/hrs* *g/kg*
miles *longest* *in* *°C* *temperature* *lbs* *volume* *°F*

YES

- 1) If it IS quantitative, write how you would MEASURE your results.

NO

- 1) If it IS NOT quantitative, rewrite it so it is now testable.
 2) Then, write how you would MEASURE your results.

1) **QUESTION:** What is the heaviest animal?

NO

YES

If NO, rewrite question here: _____

I would measure my results with a _____ in _____ units.

HYPOTHESIS: _____

2) **QUESTION:** What type of ice cream gets the coldest in the freezer?

YES

NO

If **NO**, rewrite question here: _____

I would measure my results with a _____ in _____ units.

HYPOTHESIS: _____

3) **QUESTION:** Who can throw the javelin the farthest?

YES

NO

If **NO**, rewrite question here: _____

I would measure my results with a _____ in _____ units.

HYPOTHESIS: _____

4) **QUESTION:** What type of oranges make the most juice when you squeeze them?

YES

NO

If **NO**, rewrite question here: _____

I would measure my results with a _____ in _____ units.

HYPOTHESIS: _____

5) **QUESTION:** What type of cellphone battery lasts the longest?

YES

NO

If **NO**, rewrite question here: _____

I would measure my results with a _____ in _____ units.

HYPOTHESIS: _____

TEST

Rachel's Test for Bubble Gum Lab	Questions you have for her:	Your Rewrite:
Get a piece of gum.		
Chew it.		
See if the mass changes.		

Justin's Test for Light & Color Lab	Questions you have for her:	Your Rewrite:
Put soil in a cup.		
Put it under the lamp.		
Put water in a cup.		
Put it under a lamp.		
See which one gets hotter.		

RESULTS

Directions: Make a DATA TABLE for the results below.

Results: After testing three vacuum cleaners, the Hoover vacuum picked up 200g of dirt, the Dirt Devil picked up 500 g of dirt, and the Swiffer picked up 150 g of dirt.

Results: After testing 3 different pairs of skis, the 1 meter skis completed the course in 42 seconds. The 1.2 meter skis completed the course in 40 seconds, and the 1.5 meter skis in 37 seconds.

Directions: Make a Bar Graph for the results below.

Results: After testing three vacuum cleaners, the Hoover vacuum picked up 200g of dirt, the Dirt Devil picked up 500 g of dirt, and the Swiffer picked up 150 g of dirt.

Results: After testing 3 different pairs of skis, the 1 meter skis completed the course in 42 seconds. The 1.2 meter skis completed the course in 40 seconds, and the 1.5 meter skis in 37 seconds.

1

WORD BANK:

Variable

Constants

Controlled Experiment

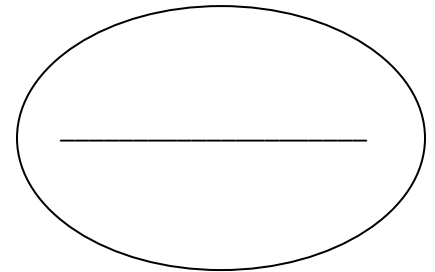
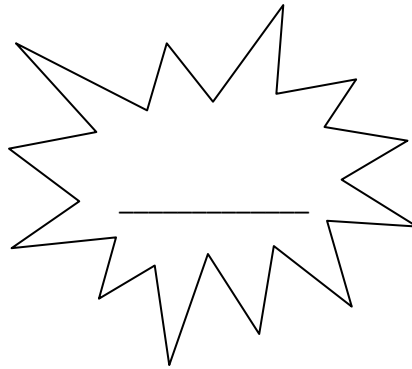
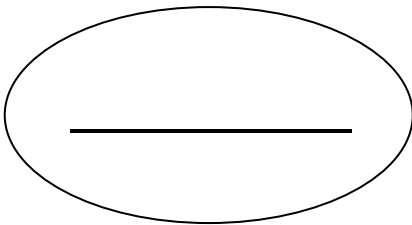
Control Group

Experimental Group

1. _____ - Does not get the treatment
2. _____ - AN experiment that compares 2 groups
3. _____ - Gets the treatment
4. _____ - The things that stay the same
5. _____ - The thing that CHANGES (different)

2

Question: Does a water freeze faster with sugar added to it?



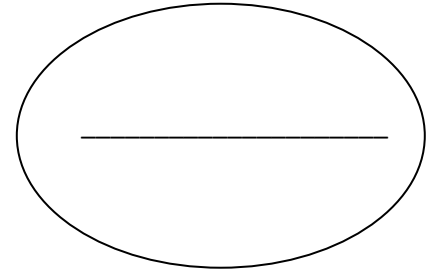
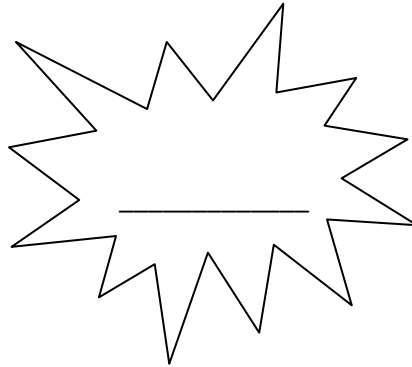
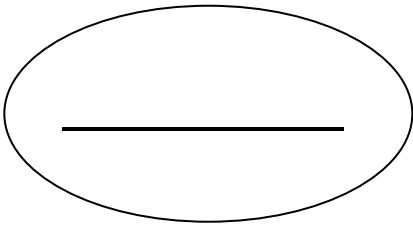
Constants:

1) _____

2) _____

3

Question: Will I get more blisters if I take my socks off in my soccer cleats?



Constants:

1) _____

2) _____

4

Question: Will a candle flame go out faster if I place a glass cup over it?

DIRECTIONS:

Identify the 6 parts of a controlled experiment:

- 1) Control Group
- 2) Experimental Group
- 3) Variable
- 4) 3 Constants

_____ size of candle

_____ candle flame with glass

_____ amount of wind

_____ candle flame without glass

_____ glass