

Check your notebook! QUIZ coming tomorrow!

So far you should have:

1. A scientist's notebook
2. Thinking like a scientist
3. Rubric for lab evaluation (with scores for your lab report & sample)
4. Scientific Method & Process Skills pretest and areas of weakness
5. Observation, Inference, Prediction, Skepticism notes
6. OIP with Calvin & Hobbes (only if your class got to this one)
7. Variables notes

Is your ToC up-to-date? Pages dated and numbered?

Tonight's Homework:

1. Look throughout your home (kitchen and bathroom are best locations) and find FIVE house-hold items with metric quantities printed on them.
2. On loose-leaf (because you'll turn it in), create a data table. Columns: Item, Printed Metric Quantity, Conversion Value
3. Some types will repeat, but you MUST have at *least one mass, one length, and one volume.*

Item	Metric Quantity & Unit	Converted Value and Unit
Envision Facial Tissue	203.2 mm (length)	

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Item	Metric Quantity & Unit	Converted Value and Unit
Envision Facial Tissue	203.2 mm (length)	20.32 cm

Select the variables...

- On each of the next several screens you will read a research outline.
- Read carefully.
- In your notebook on a new page labeled "Variables Practice," create a data table with five columns (#, summary, independent, dependent variable, control(s)).

#	BRIEF Summary	IV	DV	Control or Constant Variables

- As you go through each research outline, fill in the appropriate column.
- You **MAY** discuss, but **YOU** are responsible for what you put in your notebook. Be sure you are willing to stand by what you have written when these are graded.

1

- Dr. Ying wants to examine whether a new drug increases the maze running performance of older rats. Just like aging humans, older rats show signs of poorer memory for new things. Dr. Ying teaches two groups of older rats to find a piece of tasty rat chow in the maze. One group of rats is given the new drug while they are learning the maze. The second group is not given the drug. One week after having learned the maze, he retests the rats and records how long it takes them to find the rat chow.
- What is the independent variable?
Hint: What did the researcher manipulate (allow to vary) in this study?
- What is the dependent variable? *Hint: What was the measure of the research subjects' responses?*
- Be sure to fill out ALL the columns.

2

- A researcher wanted to study the effects of sleep deprivation on physical coordination. The researcher selected 25 year-old male college students and deprived some of the subjects to either 24, 36, or 45 hours of sleep.
- Be sure to fill out ALL the columns.

3

- A researcher wanted to know whether the number of people present would influence a person's judgment on a simple perceptual task. In each case the other members of the group purposely gave an incorrect answer. The researcher then noted whether the subject conformed to the group decision.
- Be sure to fill out ALL the columns.

4

An investigator had 60 subjects watch a videotaped re-enactment of a bank robbery. Half of the subjects were asked by a police investigator to recall the event, while the remaining subjects were interviewed by a police investigator while they were hypnotized.

5

A group of college students were given a short course in speed-reading. The instructor was curious if a monetary incentive would influence performance on a reading test taken at the end of the course. Half the students were offered \$5 for obtaining a certain level of performance on the test, the other half were not offered money.

6

A social psychologist thinks that people are more likely to conform to a large crowd than to a single person. To test this hypothesis, the social psychologist had either one person or five persons stand on a busy walking path on campus and look up. The psychologist stood nearby and counted the number of people passing by who also looked up.

7

To test a new voice feature in a cockpit design, a flight simulator was used. The simulator was programmed to give visual readings of flight information, or to give visual and auditory (voice) readings of flight information. All test pilots were put through a simulated emergency landing procedure, but were randomly assigned to the visual, or visual and auditory conditions. Flight experts rated each pilot's performance in the simulator on a scale of 1 (very poor) to 10 (excellent).

Practice and study tonight!

Tomorrow you will take a quiz on the content we have done so far beginning with what is required in a science notebook.

Study tonight!