

Safety and Scientific Method Practice Quiz

Name:

Date:

Block:

This practice test is designed to help you determine what concepts you DO know and more importantly what concepts you DO NOT know!

Go through the practice test THREE times:

(1) On your own (2) With your notes (3) With another student



Each time, if you cannot answer a question, draw a circle around it to identify that you should review this concept when preparing for the test.

- List two safety rules regarding protective clothing in the lab.
- If you notice that a beaker you are about to use has a crack in it, what should you do?
- List two safety rules regarding working with chemicals.
- What does W.H.M.I.S. stand for?
- Name the following W.H.M.I.S. symbols

6. What are the steps of the scientific method?

7. Lucas wants to know if phone usage right before bed is affecting the quality of his sleep. He will conduct the experiment throughout five school nights, increasing his phone usage from 0.5 hours to 2.5 hours of continuous usage right before he sleeps, and counts how many times he wakes up during the night.

a. What is the independent variable?

b. What is the dependent variable?

c. What are two controls in this experiment?

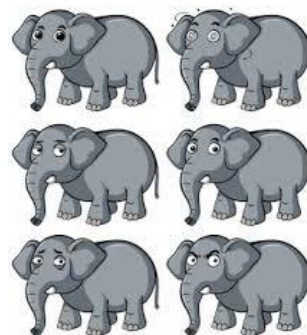
d. Write a hypothesis for this experiment

If... _____

Then _____

8. Make a quantitative and qualitative observation about this picture.

Quantitative:

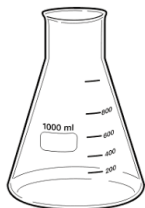


Qualitative:

9. Identify the following equipment by using the word bank.

A. Scoopula	D. Graduated cylinder	G. Erlenmeyer flask	J. Digital scale
B. Funnel	E. Bunsen burner	H. Eyedropper	K. Safety glasses
C. Beaker	F. Test tube	I. Test tube brush	L. Hot plate

_____ i.



_____ ii.



_____ iii.



_____ iv. Used for scooping dry chemicals

_____ v. Used for measuring mass

_____ vi. Used for holding small amounts of liquids