

Syllabus and Safety:

1. Go to chemistrye.weebly.com, find your class, click on "class syllabus" and answer the following questions:

a. What materials are required for chemistry? d. What is my policy regarding electronic devices?

b. How often is homework assigned? e. What do you need to do regarding make-up work/labs/tests if you are absent?

c. What is my policy regarding late work? f. When am I available for extra help?

2. Read over the safety contract and answer the following questions

a. When do goggles need to be worn? c. Who should you notify in case of an injury?

b. If you do not understand a direction or part of a lab procedure, you should... d. Why are long hair, loose clothing, and sandals considered a safety hazard?

e. In case of a fire drill during lab, what should you do before leaving the classroom?

f. Suppose a student spilled a small amount of acid on her hand. What is the proper response she should take in this situation? How would her response differ if the acid were spilled on the lab bench or floor?

- g. For the given scenarios, list what the student is doing that violates the lab safety rules and describe what the student should do in order to be safe

| Scenario | What is the student doing that is unsafe/ What should he student do to be safe? |
|--|--|
| 1. A student in lab is not wearing goggles and is wearing a baggy shirt. The student notices the interesting colors of the different chemical liquids and decides to see what would happen if he were to mix them together. | |
| 2. A student goes to get a chemical from the stock bottle. After pouring what he needs into a beaker, the student decides to pour the extra back into the stock bottle. The student forgets to screw the lid back on to bottle | |
| 3. A student who is wearing goggles puts a solution in a beaker on a hot plate and walks away to grab materials for the next part of the experiment. | |
| 4. A student is eating a snack and sets it down next to the chemicals. The reaction fizzes and gets all over the food | |
| 5. A student spills some chemicals on the lab bench and starts to scoop it up with her bare hands. Class is dismissed and the student leaves the area messy. | |
| 6. A student is supposed to make observations about some liquids in a beaker and puts his face over it and also dips his finger in it. | |

Chemistry, and science in general, involves making observations and inferences to help us better understand how things work

***Observation=** _____



Safety First!!! Which 3 of the five senses will you **NOT** use to make observations in this class unless the teacher tells you it's OK?

2 Types of Observations:

***Qualitative:** _____

***Quantitative:** _____

***Inference=** _____

Practice:

| | Observation (indicate if quantitative or qualitative) | Inference |
|-----|--|--|
| Ex: | The cookie has 7 chocolate chips (quantitative) | My little brother must have taken a bite out of this cookie (even though I didn't see him do it) |
| 1 | | |
| 2 | | |
| 3 | | |

Demo:

1. Describe what you *observed*. Indicate if these are quantitative or qualitative observations.

2. Based on what you observed and your prior knowledge, what can you *infer* about these substances?

Safety & Equipment HW

1. What is considered appropriate attire during an experiment?

2. What should a student do if he gets a caustic chemical in his eye?

3. The following is a hypothetical lab situation. Cite two examples of proper lab behavior and give one recommendation based on the safety rules that have been discussed. Please write in complete sentences
Jane came to class with her long hair swaying and wearing closed-toe shoes and long pants on the day of a lab. She read the pre-lab instructions the night before and took notes. When she came to lab, Jane placed her backpack at her desk and brought her lab notes, worksheet, pencil and calculator to the lab table. Jane began her experiment, and the first thing she did was light her Bunsen burner.

4. Identify the following statements as an **observation** (qualitative or quantitative) or an **inference**.
 - a. The beaker on the lab bench contains a clear liquid

 - b. Ms. Ye probably put the liquid into the beaker.

 - c. Someone must have burned something here.

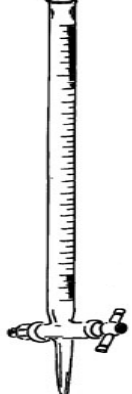
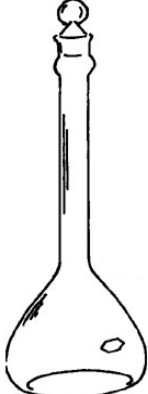

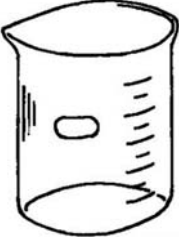
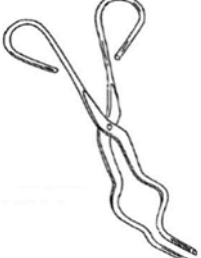

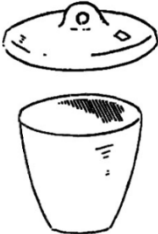
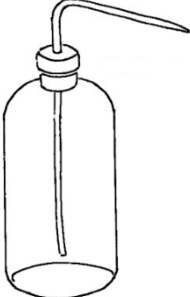

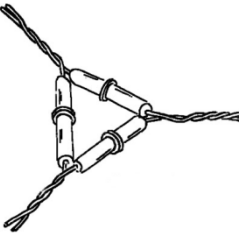


 - d. The solid is crushed and dusty looking.


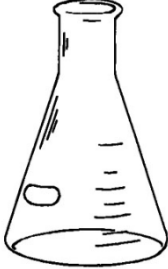
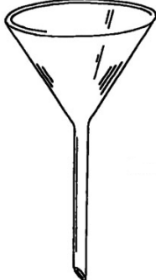
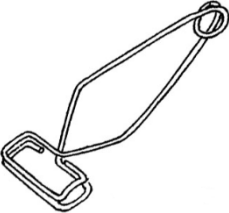
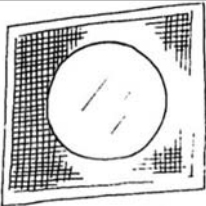
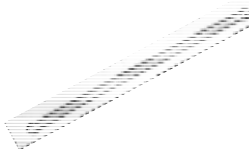
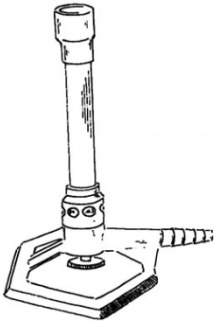

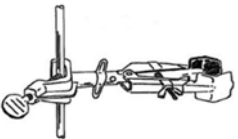



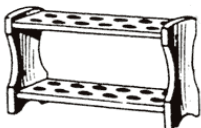

 - e. The object has a mass of 20 grams.

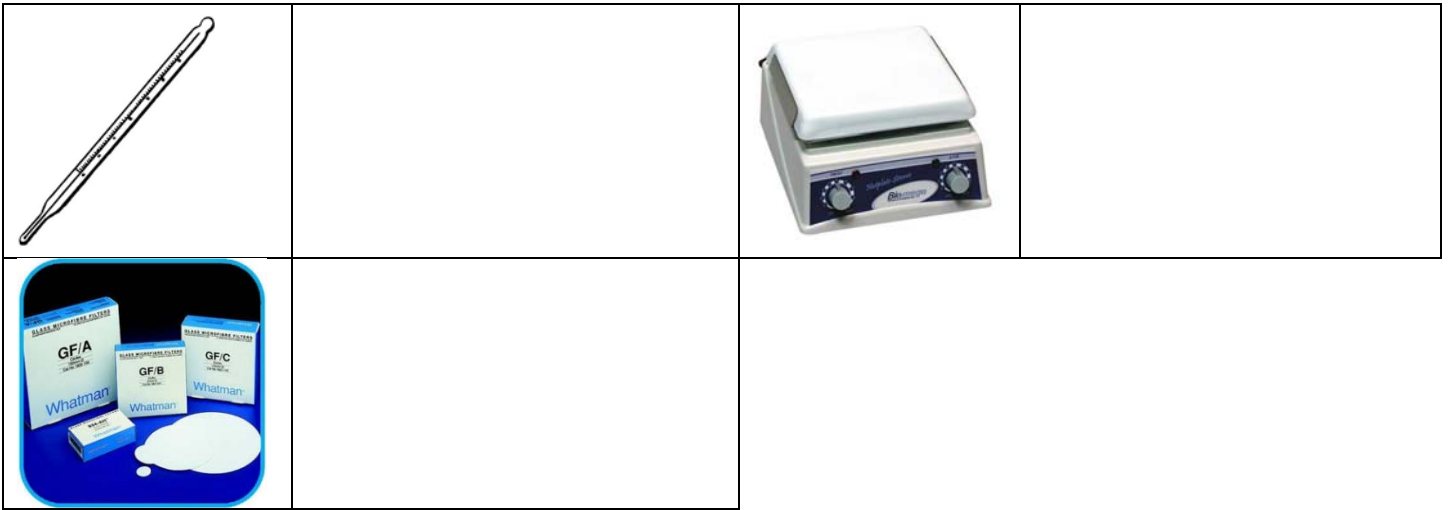
 - f. There is a drawing on the whiteboard.

 - g. A student probably doodled on the whiteboard.

1. Go to https://quizlet.com/_1wz5tt. Write down the name and function for each pictured piece of lab equipment.

| Item | Name & Function | Item | Name & Function |
|---|-----------------|--|-----------------|
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| Item | Name & Function | Item | Name & Function |
|---|-----------------|--|-----------------|
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Map of the Classroom: Locate the following safety equipment in your room and label them on the map:

- eye wash
- fire extinguisher
- fire blanket
- hood
- shower
- phone
- goggles

