Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Ms. Hanna

**Laboratory Safety and Equipment**

1. When doing an activity, always \_\_\_\_\_\_\_\_\_\_\_\_\_ the entire procedure (steps) BEFORE beginning the activity. Make sure you are aware of any special

\_\_\_\_\_\_\_\_\_\_\_\_\_.

2. ALWAYS follow procedures \_\_\_\_\_\_\_\_\_\_\_\_\_! DO NOT leave out any \_\_\_\_\_\_\_\_.

 DO NOT \_\_\_\_\_\_ any steps.

3. Always clean up any spills \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. DO NOT touch \_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_, tell the teacher immediately and she will properly dispose of the glass.

4. NEVER point any closed container that is being \_\_\_\_\_\_\_\_\_ toward anyone!

5. Always treat any HOT PLATE or container on a HOT PLATE as it if were \_\_\_\_\_\_\_.

6. Always \_\_\_\_\_\_\_\_ up sleeves, \_\_\_\_\_\_ back long hair, and \_\_\_\_\_\_\_\_ SAFETY GOGGLES during all science laboratory activities.

7. Always handle \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ with care. NEVER \_\_\_\_\_\_\_\_\_\_ them with your hands!

8. Always \_\_\_\_\_\_\_\_\_\_ up your work area after EVERY activity. Be sure to wash your hands before and after every experiment.

9. Always be sure to work in the \_\_\_\_\_\_\_\_\_\_\_\_ of the table so chemicals, bunsen burners and glassware are not knocked off the table.

10. Always \_\_\_\_\_\_\_\_\_\_\_\_ accidents, breakages and \_\_\_\_\_\_\_\_\_\_\_\_\_ to your \_\_\_\_\_\_\_\_\_\_\_\_\_\_ immediately!



**27)**

**Part 1:** Find each piece of equipment throughout the classroom. Record the letter for the equipment that you find around the classroom.

|  |  |  |
| --- | --- | --- |
| **Letter** | **Name** | **Function** |
|  | Beaker | Hold liquids |
|  | Erlenmeyer flask | Hold liquids |
|  | Test tube | Hold liquids |
|  | Test tube rack | Hold test tubes |
|  | Test tube brush | Clean test tube |
|  | Graduated cylinder | Measure liquid volume |
|  | Metric ruler | Measure length |
|  | Thermometer | Measure how hot or cold something is |
|  | Magnifying glass | Make objects appear larger |
|  | TBB | Measure mass of object |
|  | Compound microscope | Make microscopic specimens appear larger |
|  | Microscope slides | Hold microscopic specimens |
|  | Cover slips | Cover microscopic specimens |
|  | Medicine dropper | To release tiny amount of liquid at a time |
|  | Bunsen burner | Heat objects |
|  | Tongs | Hold hot glassware |
|  | Ring stand | Hold objects being heated over Bunsen burner |
|  | Fire blanket | Cut off oxygen supply to a fire in order to put one out. Located: \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Eye wash | Rinse eyes if burned by hot or acidic liquids. Located: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Emergency gas shut off | Turns off gas supply to entire classroom.Located: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Goggles | Protect eyes |

**Part 2**: On the lines provided, name the piece of lab equipment you would use to perform the task described.

1. Measure length \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Measure temperature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Observe a cell \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Pick up a beaker \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Protect your eyes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_­\_

6. Measure volume (liquid)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. Hold liquid (3)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. Heat a test tube \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. Place water on a slide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. Wash out a test tube \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Part 3**: View the picture

 and answer the questions.

1. List 3 unsafe activities shown in the illustration and explain why each is unsafe.

a.

b.

c.

2. List 3 correct lab procedures depicted in the illustration.

a.

b.

c.

3. What should Bob do after the accident?

4. What should Sue have done to avoid an accident?

5. What are two other safety practices that need to be done when heating liquids in laboratory glassware?

6. What will happen to Tim and Ray for horse playing in the laboratory?

7. What is wrong with Joe’s technique? What should he have done to identify the unknown substance?

8. List three items in the illustration that are there for the safety of the students in the lab.

9. If Sue was holding a pressurized container, what should she not put it near and why?

10. If Bob’s beaker contained something that was caustic what could happen to him?