Name: _____ Date: _____

LAB # ____ Safety in the Laboratory

Objective: Determine locations and procedures that will maintain safety in the laboratory.

Procedure:

A. Match the following safety symbols with the possible hazard or danger which it alerts you to, described on the next page.

1. 

2. 

3. 

4. 

5. 

6. 

7. 

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9. 

10. 

11. 

12. 

13. 

14. 

15. 

16. 

_____ FUME SAFETY
This symbol appears when chemical reactions could cause dangerous fumes.

_____ RADIOACTIVE SAFETY
This symbol appears when radioactive materials are used.

_____ BIOLOGICAL HAZARD
This symbol appears when there is danger involving bacteria, fungi, or protists.

_____ CHEMICAL SAFETY
This symbol appears when chemicals used can cause burns or are poisonous if absorbed through the skin.

_____ EYE SAFETY
This symbol appears when a danger to the eyes exists. Safety goggles should be worn when this symbol appears.

_____ CLOTHING PROTECTION SAFETY
This symbol appears when substances used could stain or burn clothing.

_____ EXPLOSION SAFETY
This symbol appears when the misuse of chemicals could cause an explosion.

_____ POISON SAFETY
This symbol appears when poisonous substances are used.

_____ ELECTRICAL SAFETY
This symbol appears when care should be taken when using electrical equipment.

_____ DISPOSAL ALERT
This symbol appears when care must be taken to dispose of materials properly.

_____ THERMAL SAFETY
This symbol appears as a reminder to use caution when handling hot objects.

_____ FIRE SAFETY
This symbol appears when care should be taken around open flames.

_____ PLANT SAFETY
This symbol appears when poisonous plants or plants with thorns are handled.

_____ OPEN FLAME ALERT
This symbol appears when use of an open flame could cause a fire or an explosion.

_____ SHARP OBJECT SAFETY
This symbol appears when a danger of cuts or punctures cause by the use of a sharp object exists.

_____ LASER SAFETY
This symbol appears when care must be taken to avoid staring directly into the laser beam or at bright reflections.

B. Sort the school safety guidelines into the symbol categories.

C. Locate the specified safety equipment and in a complete sentence clearly state its location.(Write answers on a separate sheet of paper in a complete sentence).

a. fire extinguisher
b. fire safety blanket
c. main gas shut off valve
d. goggle cabinet
e. eye wash station and/or eyewash bottles
f. fire alarm
g. phone
h. nurse's office

D. Match the following injuries with the proper safety response:

1. Burns	_____ Flush with plenty of water. Use eyewash bottle or fountain
2. Cuts and bruises	_____ Apply baking soda and call your teacher
3. Fainting or collapse	_____ Note the suspected poisoning agent and call your teacher
4. Fire	_____ Apply boric acid and call your teacher
5. Foreign matter in eye	_____ Flush with water. Call your teacher immediately
6. Poisoning	_____ Apply pressure or a compress directly to the wound and get medical attention.
7. Severe bleeding	_____ Flush with water or use safety shower
8. Spills on skin	_____ Follow the instructions in the first aid kit. Report to the school nurse.
9. Acid spills	_____ Wrap person in fire blanket. Extinguish all flames
10. Base spills	_____ Provide the person with fresh air. Have the person recline so that their head is lower than their body. Call your teacher. A nurse or a doctor may be needed to provide artificial respiration.

Conclusion: (Write answers on a separate piece of paper using complete sentences.)

1. Explain and give a well thought out example of why safety is important in the laboratory.
2. Describe what you would do if you were unsure about the proper procedure being used during a lab.

Lab Safety Equipment Description Sheet

Safety Device	Location in Room	Purpose of Equipment	Procedure for Use