

Unit I: Safety

Lesson #1 and #2: Safety equipment and procedure

1. Go over the fire escape procedure and exits (primary and secondary)
 - a. Turn off gas first. Demonstrate and draw picture of gas main
 - b. Wait for teacher instructions
 - c. Teacher leaves first and last student out closes the door and turns off the lights
 - d. Meet for attendance
 - e. Wait for the three tones before returning to class.
2. Code red (Do this section orally)
 - a. Get to the classroom which is closest to you
 - b. Close the door and turn off the lights
 - c. Stay away from windows if possible
 - d. Wait for code green to be given
3. Show location of two fire extinguishers. (We will look at different types later)
 - a. Never use on a person.
4. Show location of fire blanket.
 - a. Stop, drop and roll
 - b. Smother the person with the blanket (don't beat them!)
5. Show location of two eyewash stations
 - a. Splash in the eye must be rinsed for 15 minutes straight.
6. Safety shower
 - a. Pull handle down and start showering immediately
 - b. Get naked!
7. Minor first aid
 - a. For cuts, wash with soapy water and report to the teacher
 - b. For burns, rinse with cold water and report.
 - c. Chemical spill on your skin – rinse with water for several minutes.

8. Major first aid
 - a. Call the office (1100). The office will contact a first aid person in the school and 911 if necessary.
9. Point out safety poster in the class and briefly describe the significance.
10. Fume hood – used for poisonous and volatile chemicals. Demo use
11. Gloves – never use with a heat source
12. Safety (blast shield) – Use when dealing with explosive materials
13. Demonstrate how to light a burner
 - a. Pre-adjust gas valve first
 - b. Light the match and then turn on the gas slowly
 - c. Adjust the air so that two blue cones appear in the flame.
14. Demonstrate how to heat chemicals in a test tube
 - a. Hold on an angle
 - b. Open end pointed away from others
 - c. Move the tube so that the length of the tube is heated.
15. Testing a hot object – use the back of your hand
16. Acid spill – neutralize with a base (and vice versa)
17. Do not return unused chemicals to the original container
18. Broken Glass
 - a. Inform students in the immediate area
 - b. Sweep it and place in broken glass container
 - c. Use wet paper towel to get the “glass dust”
 - d. Report to the teacher so the equipment can be replaced
19. Dilute acids by adding the acid to water (never the other way around).
20. Never use your mouth on a pipet (use a suction bulb) or any other piece of glassware no matter how clean it looks
21. Tie back long hair
22. Wear close-toed shoes for lab work.