

Science 9

Day #1

Lesson #1

Part A - General Safety

1. Follow the teachers instructions
 - a. Q: “What if I’m unsure what to do during an experiment?”
 - i. Read/re-read procedures
 - ii. Confer with your lab partner
 - iii. Ask the teacher.
2. Be alert
3. Inform teacher of potential hazards
 - a. Broken glass (discuss replacement: accident vs. not)
 - b. Spills
 - c. allergies
4. No horseplay (zero for the experiment i.e., the investigation)
 - a. Water bottle use as the “big gun”
5. Contact lenses should not be worn during investigations (discuss exceptions)
6. Clean up and put away all equipment before you leave (water around sinks and inventory of equipment in lockers)
7. Keep work area clear/keep electrical equipment away from water sources. (report frayed electrical cords)
8. Wash hands with soap after an investigation
9. No gum, food or drink during a lab. (discuss exceptions)
10. Wear goggles for all experiments (discuss warning followed by zero for lab)
 - a. on before the lab begins
 - b. off after clean-up
11. No loose clothing and long hair needs to be tied back. (fire/chemical hazard)
12. Waft to smell approved chemicals and never taste anything in the lab.

Part B: Location and use of safety equipment

1. Fire extinguishers: Never use on a person.
2. Gas main (draw a diagram of on/off)
3. Gas jets (draw a diagram of on/off)
4. Eye wash is used for 15 min straight. DEMO
5. Spills on skin
 - a. Minor – rinse with water in the sink
 - b. Major – use the safety shower and remove clothes (show diagram)
6. Minor burns – run under cool water
7. Fire Blanket – stop, drop and roll. Smother the flames
8. Sand bucket – used on a metal fire (demo Mg burning)

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9. Broken glass/sharps – Always sweep the glass using a dust pan and deposit the glass in bucket under the fume hood (never in the garbage)
10. Fume hood – used for poisonous and volatile (i.e., vapourizes rapidly) substances.
11. Acid Base spill kit
 - a. use a weak base to clean up and acid
 - b. use a weak acid to clean up and base (Demo)
12. First Aid
 - a. Minor – inform the teacher
 - b. Major – call “200” (i.e., the office) if a teacher is unavailable.
13. Testing to see if an object is hot – use the back of the hand
14. Fire alarm location – “where is the closest one?”
15. Fire drill
 - a. Sit down and wait for the teacher’s instructions
 - b. Teacher exits first (mention 1^o and 2^o exits)
 - c. Last person out shuts the door and turns off the lights
 - d. Attendance
 - e. Wait for 3 tones to return to class
16. Lockdown procedure
 - a. Close door and turn off lights
 - b. No cell phones
 - c. Wait quietly in designated area until all clear
17. Gas Burner use (instructions are with fire extinguishers handout) DEMO
18. When heating materials in a test tube with a burner
 - a. Hold open end away from yourself and others
 - b. Hold tube on an angle
 - c. Move the tube so it’s heated along the length (not just the bottom)
 - d. Never stopper the top of a tube when heating.
19. Chemical disposal
 - a. Some chemicals will go in a designated waste container while others go down the sink. (check with your teacher!)
20. Unauthorized experiments: Don’t!