

**Secondary Science
Laboratory Safety Guidelines
Edwards-Knox Central School
Mr. Buckley**

Safety in the laboratory must be a primary concern to both student and teacher. The following list of regulations and precautions will be followed in our laboratory.

- 1. At the beginning of most laboratories, your instructor will engage in a prelab discussion. Many safety procedures will be discussed during these discussions. Listen attentively and follow these procedures – " an ounce of prevention is worth a pound of cure".**
- 2. Keep all books, papers, and other flammable materials away from open flames or dangerous chemicals.**
- 3. Tie back long hair when you are working with an open flame. Pipe cleaners, rubber bands, and string are useful for this purpose.**
- 4. Do NOT mix chemicals or perform unscheduled (unsanctioned) experiments without your teacher's approval**
- 5. Never use chemicals from an unlabeled container. Do not taste, smell, or touch chemicals unless specifically instructed by your teacher to do so.**
- 6. Wear safety goggles during experiments involving heating or hammering or while using acids or bases. If you do not have goggles on, stay away from students that are experimenting.**
- 7. It is also expected that you will wear goggles while doing dissections.**
- 8. Point the open end of a test tube or flask away from yourself and others while heating it. Never heat a closed container.**
- 9. Use squeeze bottles and droppers only for their intended purpose.**
- 10. A common accident for beginning students is involves inserting glass tubing into a stopper. Use glycerine or water to lubricate the glass before doing this.**
- 11. Another common accident is picking up red hot materials. Take proper precautions against this.**
- 12. No material should be left in the sinks; i.e. paper, crucibles, beakers, etc.**
- 13. Discard all waste matter in the appropriate containers. (ex. glass in glass pail)**
- 14. Never place pencils, pens, or other materials in your mouth.**
- 15. NEVER return excess chemicals back to their container.**
- 16. Gas burners must be turned off when not in use during the laboratory period. Be certain that gas burners and other materials are returned to their appropriate storage areas at the end of the laboratory period.**
- 17. Keep volatile liquids and reagents away from the bunsen burner flame or other heating source.**

- 18. Know where all laboratory safety equipment is located in case you need it.**
- 19. Most chemical spills are best handled by washing the affected area with water as quickly as possible. Call your teacher for assistance if necessary. Severe spills may require the removal of clothing.**
- 20. Put out any fires immediately. Call your teacher for assistance if necessary.**
- 21. In an emergency situation an all too common response is panic. If you observe another student in trouble, tell them what to do, and assist them in doing it.**
- 22. You are responsible for keeping your laboratory area and completely neat and clean.**