**Instructions:**

Within your table group, you will read up on one lab safety topic and present on it. Each member of your group must have an assigned role. You will prepare a poster and 1 minute presentation to the class on the topic.

**Job Duties:**

1. Principal Investigator: person on computer conducting research
2. Primary Editor: writes key points on the poster
3. Artist: illustrates key points
4. Presenter: presents to class

\*If you only have 3 group members, the presenter will also have another job.

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| Group | Topic | Link, and Guiding Questions |
| **A** | **Fires in the Lab:** | <http://chemlabs.uoregon.edu/Safety/Fire1.html><http://chemlabs.uoregon.edu/Safety/Fire2.html>Fire extinguisher: <http://www.chem.unl.edu/safety/labsafety/FireExtinguisherOperation.shtml> <http://www.chem.unl.edu/safety/labsafety/FireBlanket.shtml> <http://www.ilpi.com/safety/extinguishers.html> |
| **Guiding Questions:**What is a fire blanket used for?Which type(s) of fire extinguishers should be used in the lab?How do you use a fire extinguisher?What sorts of things (e.g. specific chemicals) should not be close to open flames? |
| **B** | **Lab attire:**  | <http://www.chem.unl.edu/safety/labsafety/properattire.shtml><http://web.princeton.edu/sites/ehs/labsafetymanual/sec6c.htm#ppe> Clothes: <http://www.cdc.gov/niosh/ncpc/><http://web.princeton.edu/sites/ehs/labsafetymanual/sec6c.htm>  |
| **Guiding Questions:**What should students do who have long hair?What type of footwear should always be worn in the laboratory?Why should safety goggles and an apron must be worn when handling chemicals labeled “corrosive”? |
| **C** | **Eyewash fountain/ Safety Shower:** | <http://www.chem.unl.edu/safety/labsafety/EyewashFountain.shtml>Safety shower: <http://www.chem.unl.edu/safety/labsafety/SafetyShower.shtml>More on showers/eyewash: <http://www.toolboxtopics.com/Gen%20Industry/Emergency%20Eye%20Wash%20and%20Deluge%20Showers.htm><http://www.nclabor.com/osha/etta/indguide/ig28.pdf> |
| **Guiding Questions:**What should you do prior to using the eyewash?When is the safety shower necessary? |
| **D** | **Disposal Procedures:** | Waste disposal: <http://web.princeton.edu/sites/ehs/labsafetymanual/sec9.htm> Broken glass: <http://www.chem.unl.edu/safety/labsafety/BrokenGlass.shtml> |
| **Guiding Questions:**Where should a student discard solid chemical waste?What should a student do with broken glass? |
| **E** | **Chemical Spills:** | <http://www.acs.org/content/acs/en/about/governance/committees/chemicalsafety/publications/guide-for-chemical-spill-response.html>(Look at Appendix B: prevention of spills)MSDS Sheets:<http://www.chem.unl.edu/safety/labsafety/MaterialSafetyDataSheets.shtml> |
| **Guiding Questions:**What is the first thing students should do if they spill chemicals?What is a MSDS sheet? |
| **G** | **Heating:**  | <http://www.chem.unl.edu/safety/labsafety/HeatingOfTestTubes.shtml>Bunsen Burner: <http://www.chem.unl.edu/safety/labsafety/BunsenBurnerUsage.shtml> |
| **Guiding Questions:**In which direction should an open test tube be facing while it is heated?How should you handle hot glassware? |
| **H/I** | **Handling Acids/Bases:**  | <http://www.chem.unl.edu/safety/labsafety/AcidsAndWater.shtml><http://www.chem.unl.edu/safety/labsafety/handlingofacidsorbases.shtml>  |
| **Guiding Questions:**How should you mix acid and water? Why?What types of gloves should be used? Why? |