

LABORATORY SKILLS ASSESSMENT

Group 1: Several statements are printed in Column I concerning students' activities and attitudes in the laboratory. Think about each statement and formulate a safety rule or procedure related to each statement. Write one or two clear, concise sentences in Column II that can serve as a safety policy for your science classroom.

Column I	Column II
1. Peter says that his teacher is solely responsible for preventing laboratory accidents.	
2. Lily started the lab activity before reading it through completely.	
3. Ricky decided to do a lab activity that he read in a library book before the teacher came into the classroom.	
4. Stephanie says that the lab aprons are unattractive and that the safety goggles mess up her hair. She refuses to wear them.	

Group 2: Describe the location and purpose of having each of the following safety devices in your science laboratory. (Locations will vary according to your laboratory design.)

1. fire blanket
2. CO₂ fire extinguisher
3. goggles
4. eyewash station or fountain
5. safety hood or vent

Group 3: The pictures below show students performing laboratory activities incorrectly, study each picture and write in the space provided all improper laboratory techniques that are illustrated. Be prepared explain why it is important follow each safety procedure.



Group 4: Answer each of the following.

1. What is the correct way to handle each of the following situations?
 - A. A chemical is splashed into your eye.
 - B. Concentrated Hydrochloric Acid is spilled onto your lab coat.
 - C. You cut your hand on a broken culture tube that contains a harmless strain of *Escherichia coli*.
 2. What part of your body is most important to protect? Why? How do you provide protection?
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Group 5: Answer each of the following.

1. What should you do before you mix any chemicals?
 2. What safety tips should you keep in mind when pouring chemicals?
 3. Where should you work with volatile chemicals?
 4. If you spill a chemical, what should you do?
 5. What should you do with the products or waste left over from an experiment?
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Group 6:

1. Describe the type of clothing you should wear on your
 - upper body:
 - lower body:
 - feet:when you are working in lab.
 2. How should you wear your hair and jewelry?
 3. How should you protect your eyes?
 4. What are the last few things you should do when you are finished with an experiment?
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Group 7:

1. What do you do if you are injured in lab?
2. How do you treat chemicals that get in your eyes?
3. How do you treat non-corrosive chemicals that get on your skin or clothes?
4. How do you treat corrosive chemicals that get on your skin or clothes?
5. What methods are used put out a clothing fire?