

# BIOLOGY



Ms. Von Burg  
Ms. Clisby  
Ms. Rinaldo

Date: \_\_\_\_\_

Lab # 1

Lab Title: Lab Safety

Name: \_\_\_\_\_

Lab Partner(s): \_\_\_\_\_

\_\_\_\_\_

Name: \_\_\_\_\_  
Date: \_\_\_\_\_

Lab Partner: \_\_\_\_\_  
Period: \_\_\_\_\_

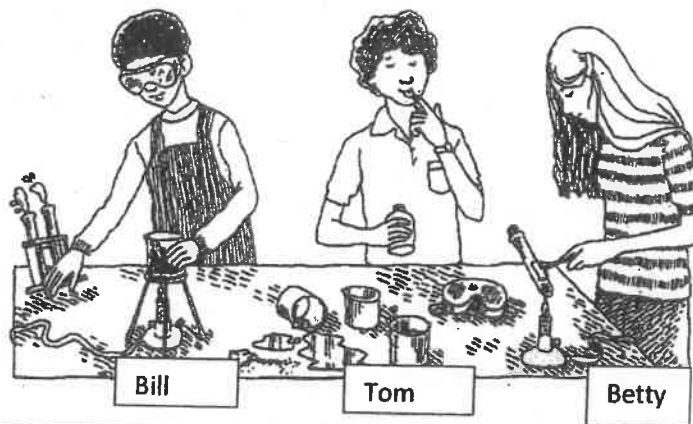
**Living Environment**  
**Lab # \_\_\_\_: Lab Safety Procedure**

Science is a process of discovering and exploring the natural world. Exploration occurs in the classroom/ laboratory or in the field. As part of your living environment class, you will be doing many activities and investigations that will involve the use of various materials, equipment, and chemicals. Safety in the science classroom, laboratory, or field sites is the **FIRST PRIORITY** for students, teachers, and parents. To ensure safer classroom/laboratory/field experiences, rules and regulations have been developed for the protection and safety of all. Your teacher will provide additional rules for specific situations or settings. The rules and regulations must be followed at all times. The lab safety contract should be covered with you, the student before starting this laboratory exercise.

**Part A: Location and Use of Safety Equipment:** For each piece of safety equipment listed below, identify its location within the science classroom and state its use.

<b>Safety Equipment/Procedure</b>	<b>Location</b>	<b>Use</b>
Eye Wash		
Chemical Shower		
Fire Extinguisher		
Fire Blanket		
First Aid Kit		
Fire Alarm Exit Location		
Emergency Exit Window		

**Part B: Interpret and Analyze:** Bill, Tom, and Betty are conducting several experiments in the lab as you can see from the picture below. Circle the mistakes each is making. Use the chart below to explain the safety rules that Bill, Tom, and Betty are breaking and explain the potential hazard.



	Safety Rule Broken	Potential Hazard
Bill		
Tom		
Betty		

**Part C: Critical Thinking and Applications:** In each of the following situations, write 'yes' if the proper safety procedures are being followed and 'no' if they are not. Then give reasons for your answer.

1. Gina is thirsty. She rinses a beaker with water, refills it with water, and takes a drink.

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2. Bram notice that the electrical cord on his hotplate is frayed near the plug. He takes the hotplate to his teacher and asks for permission to use another one.

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3. The printed direction in the lab sheet tells a student to pour a small amount of hydrochloric acid into a beaker. Jason puts on safety goggles before pouring the acid into the baker.

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4. It is rather warm in the laboratory during a late spring day. Anna slips off her shoes and walk barefoot to the sink to clean her glassware.

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5. While washing glassware, Mike splashes some water on Evan. To get even, Evan splashes him back.

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6. During an experiment, Lindsey decides to mix two chemicals that the lab procedure does not say to mix, because she is curious about what will happen.

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**Part D:** Demonstrate your knowledge of safe laboratory practices by answering the following questions below:

7. When should safety goggles be worn?

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8. What should you do if glassware breaks?

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9. If you accidentally spill water near electrical equipment, what should you do?

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10. What precautions should you take when working near an open flame?

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11. After you clean up your work area, what should you do before leaving the laboratory?

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12. It is always appropriate to dispose chemicals by flushing them down the sink? Explain.

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13. What precautions should you take when using sharp objects like scissors?

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14. What steps should you take when performing an experiment that involves poisonous or unpleasant vapors?

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