

















**Lab Safety Scenarios**

Instructions: As you read each scenario, check off the lab safety rules that apply.

Lab Safety Guidelines	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8
Wear safety goggles whenever you are working in the lab.								
Tie back long hair and loose clothing to keep it away from chemicals and flames.								
Read all directions for an experiment before beginning.								
Never perform experiments or use equipment without a teacher present.								
If a spill occurs, immediately tell your teacher and ask about proper clean up.								
Never eat or drink in the lab.								
Immediately report all accidents to the teacher.								
When heating a test tube, always point the opening away from yourself and others.								
Never heat in a closed container.								
Never directly pick up a container that has been heated.								
Never touch, taste, or smell a chemical. If instructed to smell a chemical, gently wave your hand over the opening to waft the fumes towards your nose.								
When diluting an acid, always pour the acid into the water.								
Never use broken or chipped glassware. Place it in the proper disposal container.								
Clean your hands thoroughly after handling any organisms or materials.								
Know the location of the safety equipment in your laboratory. (eyewash, safety shower, fire blanket, fire extinguisher, etc.)								

Biology Unit 1 Topic 1 Experimental Design  
**Lab Safety Scenarios**

Instructions: Place the scenario number in the column to the right of the symbol if it applies to the safety scenario.

	<u>Scenarios</u>		<u>Scenarios</u>
 <p><b>Safety Goggles</b> Wear safety goggles to protect your eyes in any activity involving chemicals, flames or heating, or glassware.</p>		 <p><b>Heating</b> Use a clamp or tongs to pick up hot glassware. Do not touch hot objects with your bare hands.</p>	
 <p><b>Lab Apron</b> Wear a laboratory apron to protect your skin and clothing from damage.</p>		 <p><b>Flames</b> Before you work with flames, tie back loose hair and clothing. Follow instructions from your teacher about lighting and extinguishing flames.</p>	
 <p><b>Breakage</b> Handle breakable materials, such as glassware, with care. Do not touch broken glassware.</p>		 <p><b>Corrosive Chemical</b> Avoid getting acid or other corrosive chemicals on your skin or clothing or in your eyes. Do not inhale the vapors. Wash your hands after the activity.</p>	
 <p><b>Heat-Resistant Gloves</b> Use an oven mitt or other hand protection when handling hot materials such as hot plates or hot glassware.</p>		 <p><b>Poison</b> Do not let any poisonous chemical come into contact with your skin, and do not inhale its vapors. Wash your hands when you are finished with the activity.</p>	
 <p><b>Plastic Gloves</b> Wear disposable plastic gloves when working with harmful chemicals and organisms. Keep your hands away from your face, and dispose of the gloves according to your teacher's instructions.</p>		 <p><b>Fumes</b> Work in a ventilated area when harmful vapors may be involved. Avoid inhaling vapors directly. Only test an odor when directed to do so by your teacher, and use a wafting motion to direct the vapor toward your nose.</p>	
 <p><b>Sharp Object</b> Scissors, scalpels, knives, needles, pins, and tacks can cut your skin. Always direct a sharp edge or point away from yourself and others.</p>		 <p><b>Animal Safety</b> Treat live or preserved animals or animal parts with care to avoid harming the animals or yourself. Wash your hands when you are finished with the activity.</p>	
 <p><b>Plant Safety</b> Handle plants only as directed by your teacher. If you are allergic to certain plants, tell your teacher; do not do an activity involving those plants. Avoid touching harmful plants such as poison ivy. Wash your hands when you are finished with the activity.</p>		 <p><b>Electric Shock</b> To avoid electric shock, never use electrical equipment around water, or when the equipment is wet or your hands are wet. Be sure cords are untangled and cannot trip anyone. Unplug equipment not in use.</p>	
 <p><b>Physical Safety</b> When an experiment involves physical activity, avoid injuring yourself or others. Alert your teacher if there is any reason you should not participate.</p>		 <p><b>Disposal</b> Dispose of chemicals and other laboratory materials safely. Follow the instructions from your teacher.</p>	