

The Living Book of **Biology**



INTRODUCTION TO BIOLOGY

LESSON 7: LABORATORY SAFETY

WHY EVERY GREAT DISCOVERY BEGINS WITH SAFETY



LABORATORY SAFETY RULES

- ✓ WEAR GOGGLES 
- ✓ WEAR GLOVES 
- ✓ LAB COAT 
- ✓ NO FOOD OR DRINK 
- ✓ KEEP AREA CLEAN 
- ✓ FOLLOW INSTRUCTIONS 
- ✓ REPORT ACCIDENTS 

LAB SAFETY CHECKLIST

- ✓ Goggles
- ✓ Gloves
- ✓ Lab Coat
- ✓ No Food or Drink
- ✓ Keep Area Clean
- ✓ Follow Instructions
- ✓ Report Accidents

SAFETY = SUCCESS



1

Why Laboratory Safety Matters



Prevent Injury



Protect Experiments



Handle Hazards Safely



Be Prepared



Protect Everyone



Work Responsibly



Safety is the foundation of every successful experiment and discovery.



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2

Wearing Proper Protective Equipment



Safety Goggles



Laboratory Coat



Gloves



Closed-Toe Shoes



Tie Back
Long Hair



Secure Loose
Clothing & Jewelry



Safety Goggles



Laboratory Coat



Gloves



Tie Back
Long Hair



Closed-Toe
Shoes



Secure Loose
Clothing & Jewelry



Proper protective equipment reduces the risk of injury from spills, broken glass, or biological materials.



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3

Safe Laboratory Behavior



Follow Instructions



No Eating or Drinking



No Running or Playing



Report Accidents Immediately



Be Respectful and Responsible



Follow Instructions



No Eating or Drinking



No Running or Playing



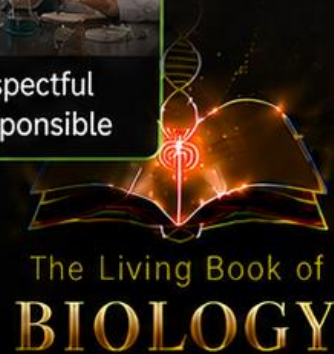
Report Accidents Immediately



Be Respectful and Responsible



Responsible behavior protects you, your classmates, and everyone in the laboratory.



4

Handling Equipment and Materials



Use Equipment Properly



Handle with Care



Read Labels Carefully



Dispose of Materials Correctly



Keep Workspace Clean and Organized

Use Equipment Only for Its Intended Purpose

Read Labels Carefully

Hydrochloric Acid (HCl) 1.0 M
DANGER: Corrosive. Causes severe skin burns and eye damage.

Handle Biological Specimens Safely

Dispose of Materials According to Procedures

Keep Workspace Clean and Organized

 Careful handling of equipment and materials protects you, your experiments, and the environment.


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5

Preparing for Emergencies



Fire
Extinguishers



Eye-Wash
Stations



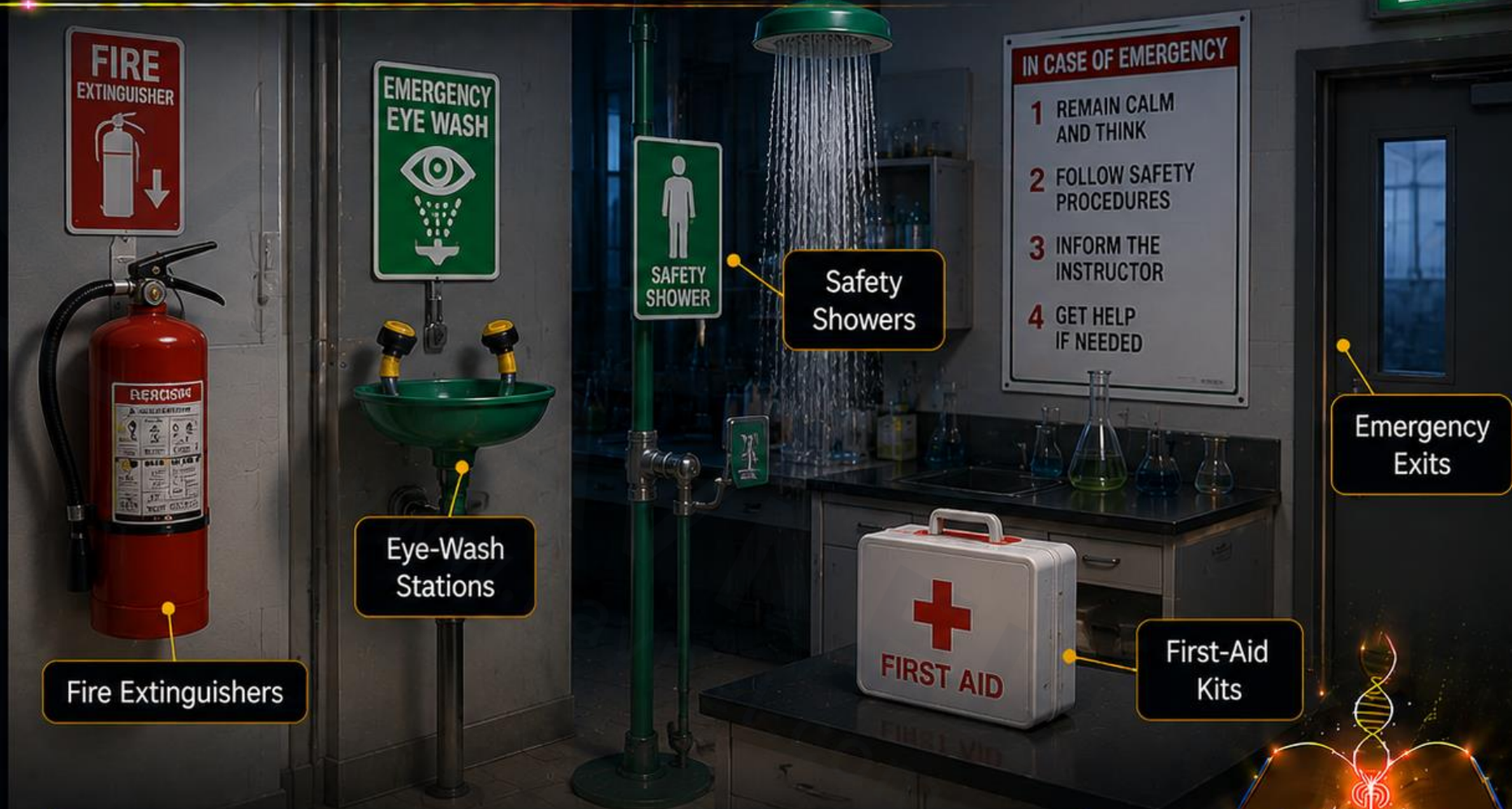
Safety
Showers



First-Aid
Kits



Emergency
Exits



Knowing where safety equipment is located and how to use it can save lives.



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6

Safety Is Part of Good Science



Careful
Planning



Accurate
Observations



Respect for
Procedures



Responsibility
Toward Others



Protect People
and Environment



Reliable Results
and Discoveries

HYPOTHESIS
↓
PLAN
↓
EXPERIMENT
↓
RESULTS

Careful Planning

Accurate
Observations

Respect for
Procedures

Responsibility
Toward Others

Protect People
and Environment

Reliable Results
and Discoveries

Good science begins with safety.
It protects people, ensures reliable results,
and advances our understanding of life.

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S

SUMMARY



Be Safe



Wear Protection



Follow Rules



Handle Materials
Responsibly



Be Prepared



Respect Others



Safety is the foundation of
every discovery.

