

Warm-Up

Safety in Science



Lesson Question



Lesson Goals

Describe safe during a scientific investigation.



Identify examples of safety .

Explain the correct procedure for safety issues.



Words to Know

Fill in this table as you work through the lesson. You may also use the glossary to help you.

<input type="text"/>	an action that is taken to prevent harm
<input type="text"/>	an unwanted product that may pose a threat to human health and/or to the environment



Science and Technology

- In science, is used to collect and record .
- Technology uses scientific to find solutions to real-world problems by creating new and/or .

Instruction | Safety in Science

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The Importance of Preparation

- [] directions [] .
- [] needed equipment.
- [] anything confusing.
- Locate all [] equipment.

Proper Clothing in the Laboratory

Do Wear

- A [] or apron
- Safety []
- Protective []

Do NOT Wear

- [] shoes
- Contact lenses
- [] hair, clothing, or jewelry

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Professional Behavior in the Laboratory

- Be .
- Follow .
- Show .
- Handle equipment with .
- before acting.
- Behave like a .

Common-Sense Practices

- Leave all and outside the lab.
- Wash your hands and lab activities.
- Avoid touching your and .
- Maintain a and neat .
- any accidents to your instructor.

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Chemical Safety

- Always wear safety .
- Always know what you are using, and read any safety associated with them.
- Never chemicals unless instructed to do so.
- Never chemicals or their fumes.

Glassware Safety

- Check for or .
- Handle glassware .
- your teacher and classmates when glassware breaks and:
 - wear before you handle broken .
 - up the glass quickly.
 - dispose of the glass .

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Heat and Fire Safety

- Do not heat sources.
- Keep and away from flames.
- Keep flammable substances away from sources.

Cleanup and Disposal

Use labeled containers for:

- waste.
- broken .
- , which may pose a threat to human health and the environment.

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Safety Equipment: Part 1

- station
 - Remove .
 - Rinse eyes for at least minutes.
- Safety

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Safety Equipment: Part 2

- Fire
- To use a fire extinguisher, remember PASS:
 - P =
 - A =
 - S =
 - S =
- Fire
- kit

Laboratory Accidents

In case of an accident, you need to:

- stay and your teacher.
- follow your teacher's .
- the area if conditions are dangerous.
- do not try to clean up a spill.
- anyone who is injured, if it is to do so.
- Use emergency if necessary.

**Lesson
Question**

How is safety achieved during scientific investigations?

**Answer**

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2**Review: Key Concepts**

- for the investigation.
- Wear appropriate .
- Be .
- Use .
- Handle , , and carefully.
- accidents immediately.
- Use safety as necessary.



Summary

Safety in Science

Use this space to write any questions or thoughts about this lesson.