**Words to Know**

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

**Lesson Question**



**?**

**W**

**2K**

**Explain** the correct procedure for

safety issues.

.

during a scientific investigation.

**Identify** examples of safety

**Describe** safe

**Lesson Goals**

.

and/or

problems by creating new

to find solutions to real-world

* Technology uses scientific

.

is used to collect and record

* In science,

**Science and Technology**

|  |  |
| --- | --- |
|  | an action that is taken to prevent harm |
|  | an unwanted product that may pose a threat to human health and/or to the environment |

**Slide**

equipment.

* Locate all

anything confusing.

•

needed equipment.

•

.

directions

•

**The Importance of Preparation**

**2**

hair, clothing, or jewelry

•

Contact lenses

shoes

* Safety
* Protective

**Do NOT Wear**

•

•

or apron

* A

**Proper Clothing in the Laboratory**

**Do Wear**

**Slide**

.

* Behave like a

before acting.

•

.

* Handle equipment with

.

* Show

.

* Follow

.

* Be

**Professional Behavior in the Laboratory**

**4**

any accidents to your instructor.

•

.

and neat

* Maintain a

.

and

* Avoid touching your

lab activities.

and

* Wash your hands

outside the lab.

and

* Leave all

**Common-Sense Practices**

**Slide**

their fumes.

chemicals or

* Never

chemicals unless instructed to do so.

* Never

associated with them.

safety

you are using, and read any

* Always know what

.

* Always wear safety

**Chemical Safety**

**7**

up the glass quickly.

* dispose of the glass .

•

.

before you handle broken

* wear

your teacher and classmates when glassware breaks and:

•

.

* Handle glassware

.

or

**Glassware Safety**

* Check for

**9**

**12**

**Safety Equipment: Part 1**

•

* Rinse eyes for at least

minutes.

* Safety

and the environment.

, which may pose a threat to human heath

•

.

* broken

waste.

•

labeled containers for:

Use

**Cleanup and Disposal**

**Slide**

sources.

* Keep flammable substances away from

away from flames.

and

* Keep

**Heat and Fire Safety**

* Do not heat sources.

|  |  |  |  |
| --- | --- | --- | --- |
|  | | station | |
| * Remove |  | | . |

[]

**Slide**

kit

•

**Safety Equipment: Part 2**

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

**12**

if necessary.

* Use emergency

to do so.

anyone who is injured, if it is

•

the area if conditions are dangerous.

* do not try to clean up a spill.

•

.

* follow your teacher’s

your teacher.

and

* stay

**Laboratory Accidents**

In case of an accident, you need to:

How is safety achieved during scientific investigations?

**Lesson Question**

**Slide**

**?**

as necessary.

* Use safety

accidents immediately.

•

carefully.

, and

,

* Handle

.

* Use

.

* Be

.

* Wear appropriate

for the investigation.

•

**Review: Key Concepts**

**Answer**

**2**

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