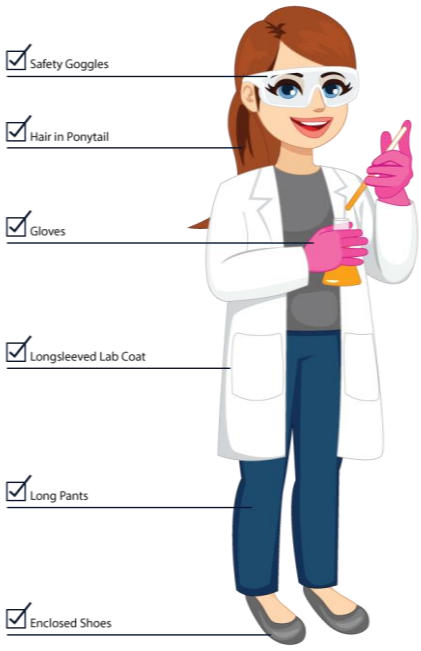
Name: _____ Period: _____ Date: _____

Lab Safety Lab Activity 3 - Student Edition



Introduction:

Wearing the proper personal protective equipment is important. In this lab we will learn how goggles, lab aprons, and gloves can protect you from chemicals.

Learning objectives:

By the end of this lesson students will:

- Describe the safety procedures for addressing fire in the lab.

Materials:

- Cornstarch
- Bunsen burner
- Bunsen burner lighter
- Ring Stand
- Wire Gauze
- Striker

Safety

1. Ensure you and your partner correctly have:
    - closed toed shoes
    - long hair tied back neatly and out of the way.
    - safety goggles, lab apron and gloves on.

    Note: Do not remove any of these until your lab is completed, cleaned up, and you are instructed to do so by your teacher!

2. Read all the instructions and do not pick up any lab equipment or begin until you are instructed to do so!

3. Review the fire safety information below.

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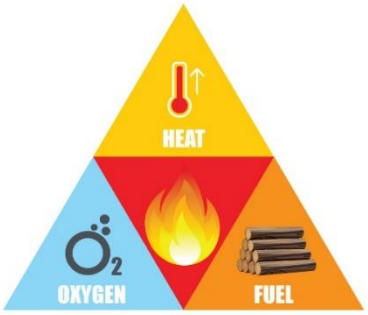
Fire Safety



All fires need three things to exist: a heat source, fuel, and oxygen. By removing one or more of these elements, the fire can be extinguished. Acting quickly and sensibly when there is a fire is essential to reduce the amount of damage the fire can cause.

If a student catches on fire…

If a student's clothing or hair should catch on fire the student should use **Stop, Drop and Roll** to smother the flame and extinguish it as soon as possible**.** Students should also use a fire blanket over the individual to put out the fire.

If a fire alarm goes off while you're in the lab you should…

1. Extinguish all flames and turn off all gas sources.
2. Exit the room in an orderly manner.
3. Meet outside at your pre-appointed location.

Post-Lab Questions:

1. Circle the two most important lab safety expectations for this lab

A. Read the instructions
B. Clean up all messes
C. Organize your lab
D. Handle Chemicals Properly
E. Practice good fire safety skills
F. Waft (Save your nose hairs)
G. Wear Goggles
H. Lose the Comedy routine
I. No Eating during lab
J. Protect your skin with gloves

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2. Explain why the cornstarch did not catch on fire or flame up when it was heated by the flame.

_____

_____

_____

3. List 3 things that are necessary for fire to occur?

A. _____

B. _____

C. _____

4. What did the teacher demo show that allowed the cornstarch to flame up?

_____

5. What should you do if a lab partner's clothing catches on fire during the lab?

_____

_____

_____

6. What do you do if the fire alarm goes off during a lab?

_____

_____

_____

7. If your lab partner burns themselves during the lab what should they do?

_____

_____

8. What does a fire blanket do to help extinguish fire or flame? (circle one)

a) The fire blanket keeps the fire from passing to the next student.

b) It smothers the fire and removes the oxygen it needs to burn.

c) It prevents scarring from the burn.

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