

## Lab Safety Lab Activity 1 – Student Edition

# “NUTS ABOUT LAB SAFETY!”

### Introduction:

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

### Learning objectives:

By the end of this lesson, students will be able to:

- Outline the first aid procedures for dealing with chemicals on the skin and in the eyes.
- Demonstrate how to correctly use chemical wash stations and eye wash stations.
- Correctly smell a chemical by wafting.

### Materials:

- Polystyrene packing peanuts
- Cornstarch packing peanuts
- Acetone (fingernail polish remover)
- Water
- 2 Petri dishes
- 2 plastic lab beakers
- 2 plastic bowls
- 2 glass droppers

### 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!

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### Lab Procedure:

1. Place one cornstarch peanut and one polystyrene peanut into two separate Petri dishes.
2. Read step three and write down your prediction of what you think will happen in each Petri dish.
3. Place two droppers of water into one petri dish and two droppers of acetone into the other petri dish. (Be sure to keep your droppers for water and acetone separate)
4. Record your results in the chart provided.

### Prediction:

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### Results:

	<u>Water</u>	<u>Acetone</u>
<u>Cornstarch Peanut</u>		
<u>Polystyrene Peanut</u>		

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### Post-Lab Questions:

1. Circle the **four most important** lab safety expectations for this lab

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

2. What chemical would you use to dissolve a polystyrene peanut?

\_\_\_\_\_

3. What solvent dissolved the cornstarch peanut?

\_\_\_\_\_

4. If you should spill a strong acid on your pants and shoes what 3 things should you do?

- a) \_\_\_\_\_
- b) \_\_\_\_\_
- c) \_\_\_\_\_

5. If a student accidentally inhales fumes from a strong chemical what should you do?

- a) \_\_\_\_\_
- b) \_\_\_\_\_
- c) \_\_\_\_\_