

Lab Safety

Name: Schuyler Huff

Subject: Middle School Science

Period: First

Date: June 29, 2009

Approximate Time: 50 Minutes

Objectives:

1. TSW realize the importance of lab safety. **DOK 2; Sci 8-**

Materials:

Teacher: textbook, notes, worksheet

Students: pen/pencil, notebook

Do Now:

Why does being safe in the lab matter?

List 4 items that would be included in lab safety gear.

Set:

Biology is fun! With that fun, come safety procedures. Before that fun comes today's lesson. What is a procedure? How do you carry out a procedure? Today we will be learning about lab safety. Lab safety is an integral part of any lab whether it's a lab at the CDC (Centers for Disease Control) or a lab right here in Holly Springs. Without that safety, at the CDC there could be an outbreak of an old disease which had already been extinct. The outbreak could happen from carelessness or plain ordinary improper lab safety procedure. Something seemingly so small could grow and grow then affect the whole world.

Last week you were tested on Mendelian Genetics. Today we are beginning a new unit on lab safety, the most important part of being in the lab. (5 minutes)

Procedure:

1. TTW explain lab safety and the importance of lab safety. Lab safety is essential for an imperatively safe lab environment. Without lab safety, people could be seriously injured. We will focus on what you should do to prevent an accident, what to do in the event of an accident and what to do after an accident. (5 minutes)
2. TTW review proper lab procedures. What should be done in order to prevent accidents is to take the proper precautions. (10 minutes)

Prevention

You should wear protective equipment and be sure that no open toes shoes are worn and loose clothing is out of the way. In addition all long hair should be pulled back into a ponytail.

Accident

In the event of an accident you should stay calm and alert the teacher. As stated in the procedure, running in the lab will not be tolerated. Calmly alert the teacher so the proper first aid treatment or clean can be performed.

Post Accident

After the accident, the students should remain calm and take things slowly as they did before with the same procedural precautions taught in the beginning. If need be, the students may be instructed to stay out of the accident area.

3. TSW will get up out of their sets and model proper lab procedure. TTW create different scenarios for the students to work through. As the students go through each scenario, the teacher will observe and direct the students. Each student will be involved in some way shape or form. (10 minutes)
4. TTW review lab symbols used to represent differing material and substances found in the lab. TTW used printouts or powerpoint slide show. (5 minutes)
5. TTW give a quiz on lab safety. The quiz on lab safety will cover all aspects of the lesson presented to the students. The students will be required to make a specified benchmark to be allowed to participate in lab activity. (10 minutes)

Closure:

Today we started a new unit. Before getting into the thick of things it is important to learn the proper lab procedures. Lab safety is the key to having an environment conducive to learning. **Do you have any questions?** Have you ever worked in a lab or did any experiments before? If not what kind of experiment have you done?

Tomorrow will begin to learn about lab materials and conversion factors. In the lab there will be times when you will need to convert certain number into a different type of unit, such as from feet to inches. **Is there anything that is not quite clear enough for you?** (5 minutes)

Assessment/Evaluation:

Objective: TSW realize the importance of lab safety.

Informal: TTW observe **(M)** the students as they look at the pictures, model proper procedure and work on their lab quiz**(C)**.

Formal: TTW quizzed (M) and grade (D) students on proper lab procedure and symbols(C).