

NAME: \_\_\_\_\_ PERIOD: \_\_\_\_\_ DATE: \_\_\_\_\_

LAB PARTNERS: \_\_\_\_\_ LAB #1

## LABORATORY SAFETY

### INTRODUCTION

The Earth Science laboratory is where you will be working to complete exercises that will help you better understand the concepts of Earth Science. While working in the laboratory it is important for you to work carefully for your safety and the safety of the other students in the room. You can avoid accidents by knowing and following safe laboratory techniques. Your job in this laboratory exercise is to identify hazards and preventative measures. Brainstorm with your group members to choose the best ones. Use the classroom or the outside world as your resource.

### OBJECTIVES

At the end of this laboratory you will be able to:

1. Describe safe laboratory procedures
2. Identify safety equipment in the classroom
3. Classify laboratory behaviors as safe or unsafe

## PART 1

### YOUR SCIENCE CLASSROOM

1. Diana and Mike were going to be late to their next class. After rushing to put away a few materials, they left a few of the lab materials on the table. Discuss how this scenario could be hazardous.

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How would your lab group have handled this differently to make this a safer clean up?

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2. It is sixth period and you are very hungry. You don't have lunch until next period. Your friend gives you a granola bar to eat. What should you do?

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3. Your lab group is working on the lab “Physical Properties of Minerals”. A student is testing for the hardness of a mineral using a glass slide. While holding the slide and testing for hardness the glass breaks. Carefully the student picked up the pieces with his hand and placed them in his other hand. Then he dumped the broken pieces in the garbage can. How would your lab group have done the procedures differently to make this a safer lab?

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4. Karen has long hair. What should she do before working near a hot plate or heat lamp?

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5. Your lab group is using the heat lamp during an investigation. The fire alarm rings. What should you do?

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6. What should you immediately do when any accident occurs in the lab?

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7. How many safety exits are there in the classroom? \_\_\_\_\_

8. Describe the location of each exit: \_\_\_\_\_

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9. What has your teacher instructed you to do during a fire drill? \_\_\_\_\_

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10. Please get up and look around the room. Label the science room below with the appropriate letters to locate important safety equipment:

- |                                |                             |
|--------------------------------|-----------------------------|
| A. Exit Used During Fire Drill | E. Fire Extinguisher        |
| B. Eye Wash Station            | F. Fire Blanket             |
| C. Emergency Shower            | G. Broken Glass Container   |
| D. Emergency Exit              | H. Fume Hood (if available) |



TEACHER'S DESK

Student's Desks

**PART 2**

**NIGHTMARE SCIENCE CLASSROOM**

**(Go to next page image labeled “The Nightmare Classroom”)**

11. List five unsafe activities in the picture and explain why each is unsafe.

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_
3. \_\_\_\_\_  
\_\_\_\_\_
4. \_\_\_\_\_  
\_\_\_\_\_
5. \_\_\_\_\_  
\_\_\_\_\_

12. List five safe activities in the picture and explain why each is safe.

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_
3. \_\_\_\_\_  
\_\_\_\_\_
4. \_\_\_\_\_  
\_\_\_\_\_
5. \_\_\_\_\_  
\_\_\_\_\_

# THE NIGHTMARE CLASSROOM



**PART 3 (OPTIONAL)**  
**JURASSIC PARK**

**Procedure:** View the opening scene of Jurassic Park original. Go to YouTube search “Jurassic Park opening scene.” (<http://www.youtube.com/watch?v=qz5JmgLQEzs>) Answer the following:

13. Describe what was being done by the workers in this scene.

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14. Describe the safety precautions that were taken to insure the safe completion of the task?

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

15. List four things that could have been done to make the situation safer for the workers.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_