

Name _____

LABORATORY AND SAFETY SKILLS ASSESSMENT

Safety Activity Identifying Laboratory Hazards (continued)

OBJECTIVES

In this activity you will:

1. Learn about the eight most common types of hazards.
2. Observe examples of these hazards in your lab.

MATERIALS

safety goggles, pencil, notepaper

PROCEDURES AND OBSERVATIONS

Part I. Types of Hazards

Listed below are examples of the major types of hazards that might be found in a biology laboratory at school. For each example listed, indicate to which major type of hazard it belongs.

- | | |
|--|-----------|
| 1. disease-causing microbes | 1. _____ |
| 2. concentrated acids and bases | 2. _____ |
| 3. frayed wires | 3. _____ |
| 4. alcohol | 4. _____ |
| 5. a loud exhaust fan | 5. _____ |
| 6. an unguarded fan blade | 6. _____ |
| 7. a Thermos bottle without a protective cover | 7. _____ |
| 8. using direct sunlight to illuminate a microscope sample | 8. _____ |
| 9. metallic sodium or potassium | 9. _____ |
| 10. an unprotected scalpel | 10. _____ |
| 11. a chair in the aisle | 11. _____ |
| 12. diseased animals | 12. _____ |

Toxic and infectious agents have several different routes of entry into the body. Ingestion (eating and drinking), inhalation (breathing), and skin contact are three of the ways in which entry occurs. Identify the route of entry that is blocked by each of the following good lab practices.

- | | |
|---|-----------|
| 13. fume hoods | 13. _____ |
| 14. rules that prohibit food in the lab | 14. _____ |
| 15. rubber gloves | 15. _____ |
| 16. immediate washup of all spills | 16. _____ |

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Part II. Inspecting the Laboratory

Inspecting the laboratory is the best way to identify hazardous conditions and anticipate possible problems before they arise. For the same reasons, many companies conduct regular inspections of their workplaces to detect hazards before they result in accidents or injuries.

Walk around your laboratory and look for examples of potential hazards. They will be examples of the eight major types of hazards discussed above. **CAUTION:** Do not touch any equipment or materials without your teacher's permission. Make a list of all possible hazards you observe. Indicate to which major type of hazard each example belongs.

	<i>Hazard</i>	<i>Type</i>
17.	_____	_____
18.	_____	_____
19.	_____	_____
20.	_____	_____
21.	_____	_____
22.	_____	_____

CONCLUSIONS AND APPLICATIONS

23. Why is hazard identification important? _____

24. If you were going to do an experiment, when would be the best time to identify the hazards? Why? _____

25. Considering the three routes of entry of hazardous substances into the body, what would be good protective equipment and good safety practices to minimize the danger of exposure? _____
