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Safety Quiz

1. Sketch below a representation of your laboratory, showing clearly the location of the following: exits, fire extinguishers, safety shower, eyewash fountain, and fume hoods.

2. Why must you wear safety glasses or goggles at all times while you are in the laboratory, even when you are not personally working on an experiment?

3. Suppose your neighbor in the lab were to spill several milliliters of a flammable substance near her burner, which were then ignited. How should this relatively small fire be extinguished?

4. What steps should be taken if a larger-scale fire were to break out in the laboratory?

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5. What measures should be taken if a student's clothing were to be ignited?

6. List five types of clothing or footwear that are *not* acceptable in the laboratory, and why they are not acceptable.

7. Suppose you were pouring concentrated nitric acid from a bottle into your reaction flask, and you spilled the acid down the front of your shirt or blouse. What should you do?

8. What steps should you have taken if you had spilled the nitric acid on your hand rather than on your clothing?

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9. What are the most common student injuries in the chemistry lab, and how can they be prevented?

10. Where should reactions involving the evolution of toxic gases be performed?

11. Why should you immediately clean up any chemical spills in the laboratory?

12. Why should you never deviate from the published procedure for an experiment?

13. Why should apparatus always be clamped securely to a metal ring stand before starting a chemical reaction?

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14. Why should you never eat, drink, or smoke while you are in the laboratory?

15. Suppose the experiment you are to perform in a given lab period involves substances that are toxic or corrosive. What should you do *before* the laboratory to prepare yourself for using these substances safely?
