**Safety Scenarios in Chemistry Lab**

Read each of the following scenarios involving high school science students (obviously not students at our school, because each is doing something in a dangerous way!). Describe what is dangerous in each scenario and what the students should have done. There can be several answers for each scenario.

1. Al Kane was mixing two chemicals in a beaker. He noticed that a greenish-yellow gas was bubbling out of the liquids. He had been told to make all observations that he could, so he held the beaker close to his nose and took a good whiff.
2. Acci Dent had heated a beaker of water until it boiled. As he carefully lifted the beaker off the hot plate with a pair of tongs, a small crack which had been in the lip of the beaker suddenly split all the way to the bottom. He quickly put the beaker into the sink and poured out the hot water. When the beaker was cool, he wrapped it in a paper towel and placed it in the garbage can.
3. Sally Forth was told to make observations about some liquids. One of the liquids was supposed to be a base and therefore have a slippery feel. So she carefully dipped the end of her little finger into each liquid and rubbed her thumb on the wet skin.
4. The fire bell rand as Dis Aster was doing a lab using a reaction plate in the main lab. Dis could smell some smoke, so he ran to his desk, grabbed his cell phone and dashed for the closest door out of the building.
5. Messy Slob was usually the slowest person in the lab. She did everything so carefully that she seldom finished all of the procedure before it was time to clean up. On this particular day, Messy was so worried about not being late to her next class that even though she knocked over a beaker of liquid ,she just left it and raced out of the lab.
6. Notta Clue and his partner Spacey Cadet were going to do a lab in their science class. As usual, they were late to class and all of the other students were already in the lab. “What are we supposed to be doin’?” asked Notta. “I don’t know,” replied Spacey. “Let’s just do what everyone else is doing!”
7. Bob really liked Sally and was really pleased she was in his Chemistry 11 class. “I’ll have a chance to talk to her and ask her out,” he thought. “But she won’t even talk to me if I wear these dorky safety glasses and apron.”
8. It was Arson Ist’s turn to light the Bunsen burner for the lab. “Where does this go?” he asked, pointing at the end of the rubber hose. “Which end do I light?” he asked anyone around him. When no one replied he turned the handle of the gas valve and bent over to smell the end of the burner tube. “Oh yeah, I need a match,” he exclaimed and trotted over to the side of the room to get one. “I wonder how this works,” he muttered and began to strike the match against the table.
9. When Arson Ist’s Bunsen burner burt into flame, it ignited some papers on the table. “Put it out!” yelled a student. So, Arson’s partner, Flash Johnson, immediately sprinted over to the sink, turned on the tap and carried a handful of water to the fire. After several trips most of the flames were out.
10. Nottoo Bright had done the first part of the experiment. He had dried the crucible (a porcelain cup) by heating it to red-hot. He left it on the heating apparatus and when to get some chemicals. Right after he left, his partner reached over and grabbed the crucible so he could put it on the tabletop.
11. En Ergy had read all of the steps in the experiment but, wanting to save steps, decided that he would put all of the powders together in one beaker and then add water instead of mixing each with water and mixing the solutions one at a time.
12. “We took too much of these chemicals,” said Hal Ogen to his partner Nob Legas. “Take the beakers up to the counter and pour the powders back into the bottles.”
13. “This chemistry really ticks me off,” said Whimis. “There are too many funny symbols and things to remember. Just look at these funny diagrams on this bottle of chemicals. I wonder what they mean”?
14. Ken ‘the Slob’ Jones always liked to be prepared when he did a chemistry lab. He made sure he had his textbook, lab book, backpack, extra paper, several pens, and his lunch on the table when he worked. He especially had a bundle of paper towels handy, because he could count on spilling some of the chemicals and needed to toss towels on the spill before continuing the lab.