

Safety Scenarios (Part A)

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Instructions: Go through the scenarios with your group. For each scenario, answer the following questions. Add to your notes if necessary.

- 1) In order, list what should be done to address this emergency situation.
- 2) Brainstorm at least 3 ways in which this situation could have been prevented or been made safer. Where applicable, refer to specific rules in your safety contract.

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Safety Scenarios (Part B)

At the top of a *separate sheet of paper*, write your **names, date, and block**.

1. Make your own **safety scenario** where there are **at least 3 hazards and/or broken safety rules** in total.
2. Then, make an **answer key** on the back. Just like in the activity, answer the 2 questions.

You will be sharing your scenario with the class, who will then be trying to come up with a solution. You will then be handing this in.

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1. Olaf is heating a test tube with a Bunsen burner when suddenly the contents shoot out and hit a nearby classmate in the elbow. Olaf walks over to the classmate and tries to wipe the chemicals off with his bare hand, but his dangling shirt sleeve catches fire.
2. During an experiment, Morgana is texting while walking to her lab station. She slips on a puddle of sulphuric acid and her phone flies into the air and falls into an open beaker of unknown chemical, which splashes and hits Ivern in the eye.
3. Janna was late to class and so she did not hear the safety instructions. She figures she will figure things out as she goes. During the dissection, she gets a small cut on her hand. She ignores it and continues with the dissection, being careful to cut towards herself.
4. Yuumi and Draven are good friends. Yuumi is working on her lab when she sees Draven out in the hallway. She runs outside holding her beaker of green liquid (because she does not want to leave it unattended). While in the hallway, she eats a chip from Draven's bag, then returns to the lab.
5. Jax is charging his iPhone while working on the lab. It is done charging, so he pulls the cable. The cable snaps off and sparks fly everywhere, catching a nearby sheet of scrap paper on fire. Jax is concerned about the plug, which is stuck in the wall socket. He tries digging it out with a fork. A fire starts where the fork is, and a concerned friend throws water on the fire.
6. The teacher has left the room to get some photocopying. Ziggs is heating up water with a hot plate and is getting bored. The thermometer reads 30° so he figures he has a lot more time before it reaches boiling temperature. He walks over to where his friend Lucian is, and they start playing basketball with a giant beaker as the hoop. The beaker breaks and shatters into pieces all over the ground. Ziggs and Lucian quickly pick up the broken pieces with their fingers and throw them into the garbage can. Lucian gets a small cut on his finger but he sucks on it and says "I'm fine dawg".
7. Teemo is playing jokes on his friends. He hides behind the whiteboard and pops out to scare Annie, who promptly screams and accidentally lights Teemo on fire. She pushes Teemo under the safety shower and pulls the safety shower handle.
8. Viktor considers himself an excellent scientist. He brings in some chemicals from home (ethanol, sodium bicarbonate, iodine) and adds them to the stock solution of hydrochloric acid, "just to see what happens". In one of the beakers, he sees a reaction. He needs to record observations, so he sniffs the beaker directly and looks closely at the beaker with his naked eye. His hypothesis is that, after the reaction, there should be nothing in the beaker except for water. To see if his hypothesis is true, he takes a sample from the beaker, tastes it, and touches it with his finger.
9. Xayah was dozing off in class during the instructions so she was the last to go up and get her equipment. She notices that one of her beakers is a little bit chipped on the side but it is the only one left so she has no choice but to use that beaker. She pours solutions into her beakers but cannot find a marker to label them with so she figures that she will remember which is which. Her goggles keep falling off during the experiment so she decides to just leave them on the lab bench.