

Situation #1

Rapunzel and Prince Charming were participating in a lab experiment that required the use of a hot plate to boil a beaker of water. While leaning over the lab table to whisper sweet nothings into her ear, Charming accidentally pushed his lab notebook against the hot plate. As you might have guessed, the paper caught fire. In all of the excitement, Rapunzel leaned over and (yes...that's right...) her hair ignited, too.

- 1.) What lab safety rules do you feel were not adhered to in this lab?
- 2.) What could have Rapunzel done to avoid this situation?
- 3.) How could Prince Charmin helped Rapunzel put out the flames?

Situation #2

During lab one day, Bill and Ted were horsing around in lab (while having an "excellent adventure") and accidentally knocked a large beaker and graduated cylinder on the floor. Each piece of lab equipment broke into many sharp fragments. They began to kick the glass under the lab bench in the hope that no one would notice.

- 1.) How could have this accident been avoided?
- 2.) What is the first thing that they should have when something in the lab gets broken?
- 3.) What is the appropriate procedure for picking up broken glass from the floor or lab bench top?
- 4.) Why should broken glass be disposed of in a "broken glass" container and not the regular garbage can?

Situation #3

Not having enough time to eat in the morning, Bob Evans brings his breakfast to 1<sup>st</sup> block lab class. He sets his bagel on the top of the lab bench and begins to spread cream cheese on it using a knife he found in the sink. Bob eats most of his bagel and then begins to experience tingling in his mouth and becomes nauseous.

- 1.) What could be happening to Bob?
- 2.) Why is it important not to eat in the lab setting?



#### Situation #4

The Dover twins (Ben and Eileen) were hastily mixing two substances together in a test tube since they didn't read the laboratory procedures before class. A violent reaction occurred and some of the chemicals splashed into Ben's eyes.

- 1) What should the Dover twins do now?
- 2) What safety precautions should the twins have taken prior to starting the lab to prevent this?
- 3) Why is it important to understand a lab procedure prior to performing the activity?

#### Situation #5

Grumpy did not get enough sleep last night due to a late soccer game but he still needed to complete his homework when he returned home from the game. As a result, Grumpy is tired and finds himself barely able to stay awake so he puts his head down on a desk for a "catnap". To wake him up, Dopey decided to throw some plastic beads at him from an "experiment tray" used by the previous AP Biology class. Grumpy wakes up, well...Grumpy. After a few minutes, Grumpy notices that his face feels "funny" and tells the nearest adult. Grumpy has a quarter sized welt on his cheek due to a chemical burn.

- 1.) How are Dopey's actions inappropriate for lab?
- 2.) After class, Dopey also begins to get a tingling in his fingers. What should you do if you believe that there is "tingling" on your skin due to a chemical you came in contact with?
- 3.) What may be a good practice for you to begin prior to leaving a laboratory classroom?
- 4.) What is the one thing that Grumpy did do that was appropriate in this scenario?

#### Situation #6

Danielle and Carrie are in a rush to clean up their lab materials, as they know that the bell is about to ring and they have friends to meet before their next class. Instead of properly disposing of the chemicals that they were using, they decide that it wouldn't hurt to pour the mixture down the sink this one time. After school, this weird odor begins to fill the hallway. People begin to feel sick. The school is evacuated until a cause is found. In search of a cause, the janitors begin to open the doors into each classroom. When they open the door to room 205, they find a smoke-like mixture billowing from the sink. The fire department and the ambulance are called into the scene and all evening activities are required to be cancelled.

- 1.) What happened to the chemicals after they were disposed of in the sink?
- 2.) What may have happened if the situation had not been found prior to the close of the building for the night?
- 3.) Why is it important to follow directions during lab?

