Laboratory Principles

1. Select the only safe thing below that can be done while in a lab.
   a: eating while working with dangerous substances
   b: playing games on your cell phone while conducting an experiment
   c: Washing your hands often
   d: Mixing chemicals in unknown amounts

2. Lisa and Sarah are conducting a lab experiment. It entails heating a substance in a crucible for a total of 10 minutes. After every 2 minutes, the substance has to be weighed. Which of the following actions is not safe?
   a: constantly observing the substance
   b: measuring the weight of the substance at regular intervals
   c: recording the weight after every measurement
   d: leaving the substance to burn for over 20 minutes

3. Which is a safe thing to do during an experiment in which two mixtures release a gas?
   a: wearing goggles
   b: wearing rubber boots
   c: abandoning the experiment
   d: leaving the lab immediately

4. Helen has to move three lab tools. Which one must she handle carefully?
   a: thermometer
   b: beaker
   c: microscope
   d: all of the above

5. Which of the following practices are unsafe to do in a science lab?
   a: having a birthday party in the lab
   b: not following instructions in a lab manual
   c: washing and putting away equipment when done
   d: wearing protective gloves when need be

6. When handling acid in a lab what should students watch out for?
   a: contact with any part of the body
   b: spilling it on other surfaces
   c: mixing it with random chemicals
   d: all of the above
1. c: Washing your hands often

2. c: leaving the substance to burn for over 20 minutes

3. a: wearing goggles

4. c: all of the above

5. a: having a birthday party in the lab
   b: not following instructions in a lab manual

6. c: all of the above