

# Chemistry Safety Quiz - Summer Camp

Your name \_\_\_\_\_

Instruction: Circle only one answer to each question.

- 1) You may remove your goggles while in the lab room:
  1. never
  2. if no one is doing an experiment or washing glassware
  3. if no one is doing an experiment anytime
- 2) You can safely wear contact lenses while doing an organic chemistry lab:
  1. if you are wearing goggles
  2. if they are soft lenses
  3. never
- 3) Broken glassware left around the lab is a hazard because:
  1. if on the floor, might step on it and cut their foot
  2. if on the lab bench, someone might lean on the bench and cut their arm
  3. if in the sink, someone might try to pick it up to throw it away properly and cut themselves
  4. all of the above
- 4) Volatile solvents can cause irritation of the respiratory tract, intoxication, central nervous system depression, drowsiness, or nausea. How can you prevent accidental vapor inhalation?
  1. work with volatile solvent in your student hood
  2. cover containers of them if you have to carry them through the lab
  3. both
- 5) Your or your neighbor's clothing catches fire, what should you do?
  1. drop to the floor and roll to extinguish the flames - if it's your lab mate who's clothing is on fire, help them to do the same
  2. run
- 6) If the fire alarm sounds, you should:
  1. do nothing - it is probably a false alarm
  2. shut down your experiment, get your stuff, then leave the building
  3. grab a fire extinguisher and/or safety wash
- 7) You get a chemical in your eye. What should you do?
  1. nothing
  2. immediately flush with water, continue washing for 15 minutes, tell your TA
  3. go to the restroom and rinse with water because the water is better there
- 8) It is important to wrap electrical cords around equipment before storing them on shelves. This is because:
  1. cords that run across the floor could trip someone

2. the only reason is that they look neater when wrapped

9) Whom should you call in case of an emergency in the lab?

1. Instructor
2. Nobody
3. A friend
4. Anybody

10) Which of the following is the eye/face wash? The safety wash?



a.



b.



c.



d.



e.

11) Why is smoking not permitted in the lab?

1. It is inconvenient
2. It is bad for your health
3. The lab could be blown up
4. There are no ash trays in the lab

12) What should be worn in a laboratory at all times to decrease the likelihood of eye injury?

1. Corrective lenses
2. Safety Glasses
3. A mask
4. Nothing

13) Whom should you call in case of an emergency in the lab?

- A. Instructor
- B. Nobody

- C. A friend
- D. Anybody

14) Why is smoking not permitted in the lab?

- A. It is inconvenient
- B. It is bad for your health
- C. The lab could be blown up
- D. There are no ash trays in the lab

15) What would immediately be used if your clothing caught fire or if a large chemical spill had occurred on your clothing?

- A. Fire extinguisher
- B. Safety shower
- C. Laboratory sinks
- D. Eye-wash fountain

16) What should be worn in a laboratory at all times to decrease the likelihood of eye injury?

- A. Corrective lenses
- B. Safety Glasses
- C. A mask
- D. Nothing

17) What should be done if a chemical gets in the eye?

- A. Notify the Instructor; then use the eye-wash fountain
- B. Use the eye-wash fountain; then return to the experiment
- C. Use the eye-wash fountain; then notify the instructor
- D. Nothing, unless the chemical causes discomfort

18) Why is it not advisable to wear contact lenses in the lab?

- A. Lenses could inadvertently fall out of the eye
- B. Chemical vapor could become trapped between the lenses and the eye
- C. Chemical vapor could literally react with the lenses
- D. All of the above

19) What precautions are needed with long hair and beards?

- A. Keep long hair tied back/keep hair away from flames
- B. Must be shampooed

- C. No long hair and/or beards allowed in the lab
- D. No precautions are necessary

20) What type of footwear is required in the lab?

- A. Shoes are optional
- B. Hard-soled, covered shoes
- C. Sandals
- D. Something in a low heel

21) Eating and drinking is not permitted in the lab because:

- A. There would not be enough time to finish the experiment
- B. The storeroom serves terrible appetizers
- C. You could be poisoned
- D. The lab would become quite messy with this type of activity

22) Why are no unauthorized experiments permitted in the lab?

- A. The student lacks experience in the lab
- B. Most professors love to see only their selected experiments performed
- C. The stockroom may not have the reagents that you need
- D. It may take more time to perform than expected

23) What should be the very last function performed in the lab before you leave?

- A. Bid the instructor farewell
- B. Make sure that your locker is secure
- C. Wash your hands
- D. Arrange a time with your lab partner for lunch

24) Describe the procedure for smelling a chemical.

- A. Stick your nose close to the vessel and breath deeply
- B. Point vessel away from face while gently fanning vapors toward nose
- C. Never smell a chemical
- D. Smell chemical as you would anything else