

Name:

Date:

Class:

Week 4 Questions Answer Key

Water Filters

1. Which of the following did Charlie filter in his experiment? Choose all that apply.
 - a. Eggnog
 - b. Coffee
 - c. Kool-Aid
 - d. Chocolate milk
 - e. Mountain Dew
 - f. Monster Energy
 - g. Milk
2. Name two liquids that you would like to try filtering in this method.
Answers will vary.
3. What type of flask will we use today? _____ **filtering** _____
4. List two other items that we will use to set up today's lab. **Two of the following: filters, Buchner funnel, rubber stopper, vacuum pump**
5. How can you ensure that the filter is "sealed" to the Büchner funnel? **Use a dropper with the solution to create a seal on the circumference of the filter.**
6. To speed up the filtration process, use a ___ **filter** _____.
7. Safety in any lab is extremely important. Which four of these considerations should we be especially mindful of today?
 - a. We are using chemicals that can damage the skin or lungs.
 - b. **We are using lab materials that are fragile or breakable.**
 - c. **Liquids could spill, make a mess, or contaminate other items.**
 - d. **Liquids could end up on the floor, creating a slip hazard.**
 - e. **Equipment and tables should be cleaned before we leave.**
 - f. We are using gas or fire and need to use extreme caution.
8. We will be filtering lake water or your solution in which you grew algae. What evidence would lead you to believe that the filter is effective in removing algae?
Answers will vary; may include color, presence of slime, or streaks of green or brown.