

## Assignment 1: Answers to odd problems

1.
  - a. physical (did not change formula)
  - b. chemical (was not same substance afterwards)
  - c. chemical
  - d. physical
3. A scientific theory is a model or explanation of natural processes supported by evidence.
5. A qualitative observation is one concerned with traits or behaviors that cannot be expressed as numbers.
7. Matter is anything that occupies space and has mass. It is made of atoms or molecules.
9. a, c, and e are physical properties
11. Melting and boiling. Both are caused by increases in energy.
13.
  - a. mixture
  - b. pure substance
  - c. mixture
  - d. pure substance
  - e. pure substance
15.
  - a. element\* (If you have a good argument, see me)
  - b. compound
  - c. compound
  - d. mixture
17. Do not hold the chemical under your nose, but away from your face and waft the scent towards you.
19. No permission is needed, but should be avoided while the teacher is giving instruction (if possible).