Grade 7 Science - Pure Substances and Mixtures **Bill Nye – Atoms and Molecules**

Name: _____ Class: _____ Date: _____

1. Things are made up of _____ pieces of stuff.
2. "Atoms" is from a Greek word meaning _____.
3. The heavy particles of the atom are in the _____. The _____ particles are on the outside. Atoms are mostly _____ _____
4. _____ and _____ are found in the nucleus. Their charges are _____ and _____, respectfully. _____ buzz around the nucleus at a _____ distance away.
5. Electrons _____ each other and move around so fast that the atom acts like a _____.
6. _____ atoms would fit on the head of a pin.
7. Atoms are the basic _____ _____ of all matter.
8. When atoms combine, they can make _____
9. All matter is made of _____ and _____
10. Water is _____ parts _____ and ____ part _____. We know this because water can be split apart by _____
11. To "see" the spaces in matter, add one cup of water and one cup of _____. The total volume is _____ _____ two cups, since alcohol has a lot of _____ _____ between molecules, where water molecules can _____
12. The number of _____ in the nucleus makes the atoms different. Elements have been arranged on a _____ _____. The _____ number represents the number of protons.
13. _____ elements occur naturally.
14. NaCl is SALT. $C_3H_5N_3O_9$ is nitroglycerine and is used to make _____.
15. Inside protons and neutrons are _____. These are studied by a _____ _____
16. Everything in the universe is either _____ or _____. The smallest pieces of matter are _____.
17. _____ is in every living thing, like us. _____ chemistry is the study of this element's compounds.