

Grade 9 Science – Unit 1 Lesson 4 Bill Nye – Atoms and Molecules

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 _____, respectively. _____ buzz around the nucleus at a _____ distance away.
5. Electrons _____ each other and move around so fast that the atom acts like a SOLID.
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, C₃H₅N₃O₉ is nitro-glycerine 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.