

Name:

Date:

Bill Nye Atoms and Molecules

Before we watch the video, read the questions to yourself so that you know what to be listening for. While watching the video, answer the questions.

1. Bill Nye describes atoms as _____.
2. If we break matter down, everything is made of _____.
3. The term atom comes from the Greek word _____.
4. True/False: Atoms are too small to see with a microscope.
5. The middle of an atom has (heavy or light) particles. (circle one)
6. The outside of an atom has (heavy or light) particles. (circle one)
7. The middle of an atom is called the _____.
8. In the nucleus, there are _____ and _____.
9. Protons have a _____ electrical charge.
10. Neutrons have _____ charge.
11. "Buzzing" around the nucleus are _____, these particles have a _____ charge.
12. _____ is the flow of electrons from one atom to another.
13. The distance from the nucleus of an atom to its electrons is _____.
14. Atoms are mostly _____.
15. True/False: Electrons move very fast.
16. How is it that atoms can act like a solid?

17. Approximately how many atoms can fit on the head of a pin? _____
18. _____ are the basic building blocks of all matter.
19. When atoms are combined, they make _____.
20. Water is _____ part(s) hydrogen and _____ part(s) oxygen.
21. Why doesn't 2 cups of water equal 2 cups of rubbing alcohol?

22. The main difference between aluminum and copper is _____.
23. An element's atomic number is equal to the number of _____ in the _____.
24. Elements combined make _____.
25. NaCl is _____.
26. $C_6H_{12}O_6$ is _____.
27. Inside of neutrons, electrons and protons you will find _____.
28. Everything in the universe is _____ or _____.
29. Heat, light and sound is _____.
30. Organic chemistry is the study of _____.