

Hidden Formula Puzzle

Answer the following statements with True or False

- _____ 1. A Chemical bond forms when atoms transfer or share electrons.
- _____ 2. Air is a mixture of gasses
- _____ 3. An ionic bond is formed when atoms share electrons, such as in water.
- _____ 4. A group of atoms held together by a covalent bond is called a molecule.
- _____ 5. A compound forms by the chemical combination of two or more elements.
- _____ 6. A covalent bond is formed when atoms transfer electrons, such as in salt.
- _____ 7. An atom's outer level of electrons are the ones involved in bonding.
- _____ 8. Most atoms reach a filled electron level when they have eight electrons in it.
- _____ 9. Hydrogen and Helium only require 2 electrons to reach a filled level.
- _____ 10. A mixture is two or more substances chemically combined.
- _____ 11. Ionic bonds usually take place between two non-metals.
- _____ 12. Lewis dot diagrams are an easy way to show electrons in an element.
- _____ 13. A particle of table salt contains one atom of sodium and one atom of chlorine.
- _____ 14. Most compounds look similar to at least one of the elements they contain.
- _____ 15. An element consists of only one kind of substance
- _____ 16. Alkali Metals and Halogens will form ionic bonds easily.

Find the formula by darkening the squares of each true answer.

3	16	10	12	19	6	11	3	18	4	15	8	6
18	5	22	2	11	23	30	14	21	2	10	13	23
10	13	1	15	3	14	3	40	10	5	6	2	19
14	9	21	4	20	7	12	2	11	12	14	16	14
20	7	90	8	6	60	10	16	25	9	1	7	11
23	60	11	14	22	31	1	21	50	10	35	22	40
6	70	80	25	20	4	9	13	6	19	20	11	3