

Types of Matter and Mixtures - Check your understanding!

True or False? Answer these questions as a group. Check your answers when done.

Don't peek at the answers ahead of time! ☺

- _____ Oxygen (O_2) is a mixture
- _____ Air is a molecule.
- _____ An element is made out of only one kind of atom.
- _____ The atoms in a pure element are not bonded together.
- _____ The atoms in a molecule are not bonded together.
- _____ When looking at drawings of a molecule, the "spheres" often represent molecules, & lines or sticks represent the bonds connecting them.
- _____ A molecule could be made of the same atoms or different atoms that are bonded together.
- _____ Ozone (O_3) is made of three oxygen atoms and is a compound.
- _____ Water, salt and carbon dioxide are all molecules.
- _____ Water, salt, and carbon dioxide are all compounds.
- _____ NaCl is made out of four different kinds of atoms.
- _____ H_2O_2 is made up of 2 hydrogen atoms and 2 oxygen atoms.
- _____ Ammonia (NH_3) is a compound.
- _____ A water molecule is in the shape of a triangle.
- _____ A carbon dioxide molecule has a single bond.
- _____ Bonds are formed when the electrons in the outer shell are shared or transferred.
- _____ Atoms are the building blocks of elements, molecules, compounds, and mixtures.
- _____ Sodium Chloride, or table salt, is a compound.
- _____ Air is a mixture of many different gas molecules.
- _____ Pizza is a heterogeneous mixture.
- _____ Salt water is a heterogeneous mixture.
- _____ A solution is when one substance dissolves in another.
- _____ In Kool Aid, water is the solute.
- _____ In Kool Aid, the sugar is the solute.
- _____ Another word for air is oxygen.
- _____ Often when you look at the drawing of a compound, you will notice that there are different colored "spheres" bonded together.
- _____ Tap water has many things dissolved in water. This means that tap water is a homogeneous mixture.
- _____ Solutions are homogeneous mixtures.
- _____ Pure water (H_2O) is a compound and a molecule.