Matter Essay

 Everything is made of matter. Matter is the building block of everything, from the earth to the solar system to the galaxy to the universe. There are four states of matter: solid, liquid, gas, and plasma. Every piece of matter is an element, compound, or mixture. Compounds, elements, and mixtures have many things in common. They also have many differences.

 Elements are only made of one kind of atom. An element’s smallest unit is the atom. Elements are created through nuclear fusion. Did you know that?? Elements are either classified as metals, metalloids, or non-metals. They are identified by a chemical symbol. The only way elements are held together is by attraction of negative and positive charges. Elements’ chemical properties never change.

 Mixtures can be homogenous or heterogeneous in structure. Mixtures are identified by the ingredients they contain. They are created by physical change, and can be broken down by physical means. They are classified as heterogeneous and homogenous. But they are not held together by chemical bonds. They are not a pure substance. Their individual properties of mixed parts do not change.

 Compounds are identified by chemical formula. They are created by chemical change. Compounds are classified as organic or inorganic. They are chemical joined with a chemical bond. Their properties of joined types do not change.

 Elements and compounds are the same in some ways. They are homogenous in structure. They can’t be broken down by physical means. They are both a pure substance.

 Compounds, elements, and mixtures are also the same in some ways. They are all made by humans or nature. They all exhibit physical and chemical properties. They also can be solid, liquid, or gas. But mixtures and elements have nothing in common. That is the end Thank You!