Types of Matter Worksheet

1)	Define the following:				
a.	Element –		d. Mixture –		
b.	Molecule –		e. Homogeneou	s mixture –	
C.	Compound –		f. Heterogeneou	us mixture –	
2)	What did the playdough balls represent in this activity? What did the toothpicks represent?	3)	The element section did not have any toothpicks. Why?	4) What is the difference between a molecule and a compound?	
5)	If you were looking at the particles, a drawing, or model of a compound, what are some things you would notice?	6)	If you were looking at the particles, a drawing, or a model of a molecule, what is one thing you could you see that you would not see in a compound?	7) In the mixture section, why didn't you connect the water and the salt with a toothpick?	
8)					
	Pure Gold (Au) Carbonic	ACID H	Sugar (C ₆ H ₁₂ O ₆) Am	monia (NH ₃) Kool Aid	
	Mystery Substance Nitroge	en	H ₂ O ₂	Air Silver (Ag)	

Identify if each statement is referring to an atom, element, molecule, compound, or mixture. a. The smallest unit of an element that has the same d. More than one substance that can be properties as the element. separated by physical means. b. A pure substance made of two or more atoms of e. A pure substance that is made of all the the same element that are bonded together same type of atom. More than one substance chemically bonded together, can be separated only by chemical means. **10)** Match the diagrams to the description that best matches. Element Compound b. c. Mixture of Elements d. Mixture of Compounds e. Mixture of Elements and Compounds 1. _____ 2. ____ 3. _ 4. _____ 5. __ 11) Draw particle diagrams (like you see in Q10) for each of the things described. Homogenous mixture made up Heterogeneous mixture Homogenous mixture of an gaseous element and a made up of two different made up of two different gaseous compound. liquid compounds solid elements 12) Complete the classification of matter **MATTER** Separated by Separated by flow chart: physical means chemical means Pure substance All one type of atom One or more types of Not uniform UniformNOT bonded together elements bonded together Heterogeneous **Element** More than one type of element bonded together