Elements, Compounds & Mixtures Worksheet

| Part 1: Read the following information on elements, compounds and mixtures. Fill in the blanks where necessary. |
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| A pure substance containing only one kind of An element is always uniform all the way through (homogeneous). An element be separated into simpler materials (except during nuclear reactions). Over 100 existing elements are listed and classified on the |
| A pure substance containing two or more kinds of The atoms are combined in some way. Often times (but not always) they come together to form groups of atoms called molecules. A compound is always homogeneous (uniform). Compounds be separated by physical means. Separating a compound requires a chemical reaction. The properties of a compound are usually different than the properties of the elements it contains. |
| Two or more or NOT chemically combined. No reaction between substances. Mixtures can be uniform (called) and are known as solutions. Mixtures can also be non-uniform (called). Mixtures can be separated into their components by chemical or physical means The properties of a mixture are similar to the properties of its components. Part 2: Classify each of the following as elements (E), compounds (C) or Mixtures (M). |
| Write the letter X if it is none of these. Diamond (C)Sugar (C ₆ H ₁₂ O ₆)MilkIron (Fe)AirSulfuric Acid (H ₂ SO ₄)GasolineElectricityKrypton (K)Bismuth (Bi)Uranium (U)PopcornWater (H ₂ O)Alcohol (CH ₃ OH)Pail of GarbageA dogAmmonia (NH ₃)Salt (NaCl)EnergyGold (Au)WoodBronzeInkPizzaDry Ice (CO ₂)Baking Soda (NaHCO ₃)Titanium (Ti)Concrete |