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| 1. Define the following:
	1. Element –
	2. Molecule –
	3. Compound –
 | * 1. Mixture –
	2. Homogeneous mixture –
	3. Heterogeneous mixture –
 |
| 1. What did the marshmallows represent in this activity? What did the toothpicks represent?
 | 1. The element section did not have any toothpicks. Why?
 | 1. What is the difference between a molecule and a compound?
 |
| 1. If you were looking at the particles, a drawing, or model of a compound, what are some things you would notice?
 | 1. 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?
 | 1. In the mixture section, why didn’t you connect the water and the salt with a toothpick?
 |
| 1. Look at the particles of the following substances. Determine if it is an element, compound, or mixture.

 Pure Gold (Au) Carbonic Acid Sugar (C6H12O6) Ammonia (NH3) Kool Aidwater[1]water[1]water[1]http://www.chemistry-reference.com/images/structural/carbonic%20acid.pngsugar[1]220px-Ammonium-3D-balls[1]water[1]  \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_http://upload.wikimedia.org/wikipedia/commons/5/5a/D-glucose-chain-3D-balls.pngwater[1]water[1]http://upload.wikimedia.org/wikipedia/commons/5/5a/D-glucose-chain-3D-balls.pnghttp://upload.wikimedia.org/wikipedia/commons/5/5a/D-glucose-chain-3D-balls.png   Mystery Substance Nitrogen H2O2 Air Silver (Ag) C:\Users\roehml\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\V6LRM1PL\220px-Methane-3D-balls[1].pngatom2[1][1]http://upload.wikimedia.org/wikipedia/commons/7/7a/Sphere-with-blender.pngC:\Users\roehml\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\7JUOCVZ6\N2[1].jpghttp://upload.wikimedia.org/wikipedia/commons/7/7a/Sphere-with-blender.pnghttp://upload.wikimedia.org/wikipedia/commons/7/7a/Sphere-with-blender.pngC:\Users\roehml\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\7JUOCVZ6\Carbon_Dioxide[1].png125px-Hydrogen-peroxide-3D-balls[1]http://education.jlab.org/qa/atom_model_03.gifhttp://upload.wikimedia.org/wikipedia/commons/c/cf/Ammonium-nitrate-xtal-3D-balls-A.pnghttp://upload.wikimedia.org/wikipedia/commons/7/7a/Sphere-with-blender.pngC:\Users\roehml\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\0V3JGUBA\190450_350px-Water_molecule.svg_68[1].jpg \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| 1. Identify if each statement is referring to an atom, element, molecule, compound, or mixture.
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| * 1. The smallest unit of an element that has the same properties as the element.
	2. A pure substance made of two or more atoms of the same element that are bonded together
 | 1. More than one substance that can be separated by physical means.
2. A pure substance that is made of all the same type of atom.
 |
| 1. More than one substance chemically bonded together, can be separated only by chemical means.
 |
| 1. Match the diagrams to the description that best matches.
	1. Element
	2. Compound
	3. Mixture of Elements
	4. Mixture of Compounds
	5. Mixture of Elements and Compounds

1. \_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_4. \_\_\_\_\_\_\_\_\_\_ 5. \_\_\_\_\_\_\_\_\_\_ |
| 1. 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* |
| 1. Complete the classification of matter flow chart:

*Uniform**Not uniform***Heterogeneous** *All one type of atom NOT bonded together***Element***One or more types of  elements bonded together**More than one type of element bonded together**Separated by physical means**Separated by chemical means***Pure substance****MATTER** |

*Put glue here in this margin to make a “flippy”*☺