

Worksheet 2

Name	Symbol	Atomic Number	Solid liquid or gas at room temperature	Atomic Mass	Metal, Nonmetal or Metalloid	Is it diatomic? Yes or No?	Period Number	Family Name or Number if no name
Sodium								
	Ag							
		14						
				35.453				
							4	Alkali metal
			liquid				4	
		53						
				15.999				
							2	Noble gas
	Fe							

Classify the following as compound, mixture, or element

Material	Compound, mixture, or element	Material	Compound, mixture, or element
Steel		Diamond	
Aluminum		NaCl	
Tap water		Ga	
NaHCO ₃		Distilled water	
Vegatable soup		Windex	
14 ct gold		C ₁₂ H ₂₂ O ₁₁	
Wood		Paint	
A substance that is not pure		A substance made of one kind of atom	
Cannot be separated by physical or chemical change		Can be separated by physical change	
Zr		Helium	

Calculate the molecular mass of the following:

	Answer
Ca(OH) ₂ (calcium hydroxide)	
C ₈ H ₁₀ O ₂ N ₄ (Caffeine)	

Classify the following as endothermic or exothermic:

	endothermic or exothermic
An explosion	
A reaction in which the temperature increases	
A reaction in which the temperature decreases	

Classify the following as kinetic energy or potential energy

	kinetic energy or potential energy
A football thrown by a quarterback	
A car in the parking lot with a full tank of gas	
A ball rolling down a hill	

Classify the following as a chemical or physical change

	chemical or physical change
An explosion	
Dissolving sugar in iced tea	
Burning a cake in the oven	
A slice of apple turning brown in the air	
To liquids are mixed and a solid forms	
A change in which a chemical bond is broken	
Water evaporating from a puddle	
A change in which a new substance is formed	