

Name: _____

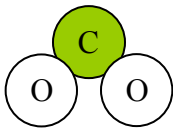
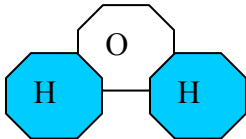
Class Period: _____

Unit 2 Study Guide

1	Is melting a physical or chemical change?	Physical
2	Is crushing something a physical or chemical change?	Physical
3	Is mixing things together a physical or chemical change?	Physical
4	Is oxidation a physical or chemical change?	chemical
5	Is cooking a physical or chemical change?	chemical
6	Is the ability to tarnish a physical or chemical property?	chemical
7	Is the ability to react with water a physical or chemical property?	chemical
8	Is hardness a physical or chemical property?	physical
9	Is burning a physical or chemical change?	chemical
10	Is cutting something in half a physical or chemical change?	physical
11	List six <i>indicators</i> that give you a hint that a chemical change might be occurring. (these hints do not ALWAYS mean a chemical change happened, but they usually do)	Change in temperature Change in color Bubbles Light given off Sound Smoke Formation of a Precipitate
12	What is the main difference between a chemical and a physical change?	A physical change is still the same substance, it just looks different. A chemical change forms a new substance and cannot easily be reversed, or changed back.
13	Which type of change is easily reversed? (chemical or physical)	Physical

Name: _____

Class Period: _____

14	What is an element?	A substance that cannot be broken down into any other substance by chemical or physical means
15	What is an atom?	The smallest unit of an element
16	What is a compound?	More than one elements chemically bound together
17	What has to happen to break a compound down into another substance?	Chemical change
18	Can an element be broken down into another substance? Why or why not?	No, it is already in it's simplest form
19	Is Carbon Dioxide an element or compound? How do you know?	Compound, it contains 2 elements Carbon and Oxygen
20	Write the formula for carbon dioxide and draw the molecule.	CO ₂ 
21	Is water an element or a compound?	Compound
22	Write the formula for water and draw the molecule.	H ₂ O 
23	Is He an element or a compound? How do you know?	Element - only one element - only one capital letter
24	Is Ag an element or compound? How do you know?	Element - only one element - only one capital letter
25	Is HCl an element or compound? How do you know?	Compound - contains Hydrogen(H) and Chlorine(Cl) - more than one capital letter
26	What is AgNO ₃ ? (an element or compound) How do you know?	Compound - contains Silver(Ag) and Nitrogen(N) and Oxygen(O)- more than one capital letter
27	If you see two letters in a formula how do you tell if it's a compound or an element?	If they are both capital letters, it's a compound, if only one is capital, it's an element
28	How many elements are there in N ₂ H ₄ ? name the elements	2 Nitrogen (N) and Hydrogen(H)
29	How many elements are there in CuO ₃ ? name the elements	2 Copper(Cu) and Oxygen(O)
30	How many elements are there in O ₂	1 Oxygen(O)

Name: _____

Class Period: _____

31	What can we tell about an element by its position on the periodic table?	It's properties (metal, nonmetal, metalloid, how reactive it is etc)
32	What information can be found in an element cube?	Element name, symbol, atomic number, atomic mass, and state of matter
33	What is a period on the periodic table?	Horizontal row
34	How are elements in the same period similar?	They increase in atomic number by 1 from left to right - increase in reactivity from left to right
35	What is a family or group on the periodic table?	A vertical column
36	How are elements in the same family or group similar?	They have similar properties and react with similar elements
37	Is the periodic table organized by solids, liquids and gasses?	NO
38	What are properties of Metals?	Metals are malleable, ductile, good conductors, magnetic, shiny, hard, usually solid at room temperature (mercury is the exception)
39	What are properties of Non-Metals?	Non-metals are Not shiny, Do not conduct heat or electricity, Cannot be hammered into shapes (brittle - will break), and are Not ductile
40	What is to the right of the zig zag line on the periodic table?	Non - Metals
41	What is to the left of the zig zag line on the periodic table?	Metals