Name Mr. Tost Date 10/2 Class 2

Formative Grade

Test Review: Elements and Compounds

Vocabulary

1. Mass -anything that has mass and takes up space.
2. Energy -the ability to do work or cause a change.
3. Chemistry -the study of the properties of matter and how matter changes.
4. Element -a pure substance that cannot be broken down into other substances by chemical or physical means. (the building blocks of matter)
5. Periodic Table -an arrangement of the elements in order of atomic number, in which elements with similar properties are grouped in columns.
6. Period -the horizontal rows on the Periodic Table of Elements.
7. Group -the vertical columns on the Periodic Table of Elements.
8. Compound -a substance made of two or more elements chemically combined in a set ratio. (can only be separated by another chemical reaction)
9. Atom -The smallest particle of an element.

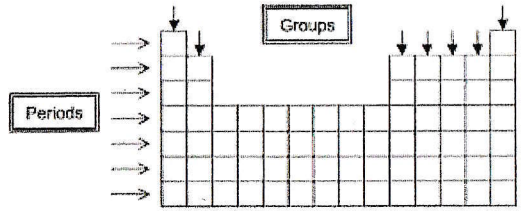
Periodic Table of Elements

1. Look at your Periodic Table of Elements and find the element Aluminum. In the space below, draw the square and label it. You must include the **atomic number, the symbol, the element name and the mass number.**

13
Al
26.982
Aluminum

Please help your child study for this test by going over questions and quizzing them using this review. If you help your child study and sign this review, your child will receive 5 extra points on their test!

Parent Signature



2. On the Periodic Table of Elements, what is a family?

Elements that share similar characteristics or properties

3. On the Periodic Table of Elements, what is a period?

A group of Elements that are not alike in properties

4. Use your Periodic Table of Elements to fill in the missing information in the table below for the elements.

Element Name	Chemical Symbol	Atomic Number	Atomic Mass
1. Carbon	C	6	12.011
2. Francium	Fr	87	223
3. Cobalt	Co	27	58.933
4. Krypton	Kr	36	83.798
5. Vanadium	V	23	50.942
6. Manganese	Mn	25	54.938
7. Tellurium	Te	52	127.60
8. Mercury	Hg	80	200.59
9. Chromium	Cr	24	51.996
10. Platinum	Pt	78	195.085

C

Elements and Compounds

Part I: Classify each of the following as an element or a compound.

1. H_2O Compound
2. Co Element
3. CO Compound
4. Cu Element
5. CO_2 Compound.

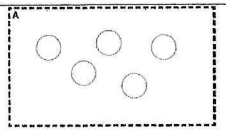
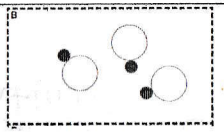
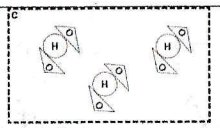
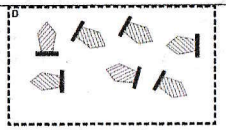
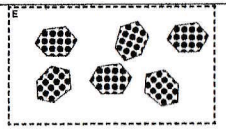
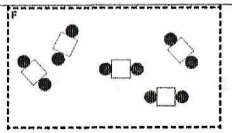
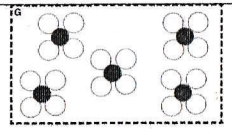
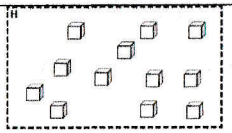
Part II: Write the name of the elements found in each of the following compounds.

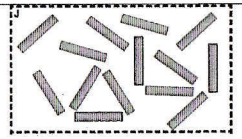
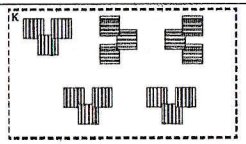
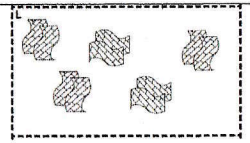
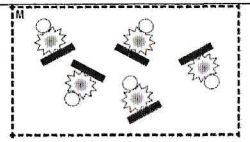
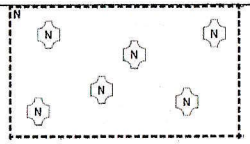
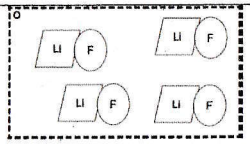
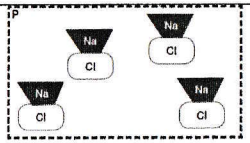
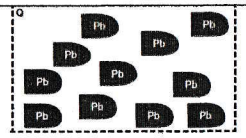
1. $C_6H_{12}O_6$ Carbon, Hydrogen, Oxygen
2. CuCl Copper, Chlorine
3. NaCl Sodium, Chlorine
4. $HgSO_4$ Mercury, Sodium, Oxygen
5. CBrNO Carbon, Boron, Nitrogen, Oxygen

Part III: How many **elements and atoms** are found in each of the following compounds?

	Elements	Atoms
1. $CH_4N_2O_4$	4	11
2. RbBr	2	2
3. $C_6H_8F_2S$	4	17
4. CHFO	4	4
5. $AlCl_2$	2	3

Complete the Data Table below classifying the pictures below as an element or compound.

Molecule	Element or Compound
	Element
	Compound.
	Compound
	Compound
	Compound
	Compound
	Compound
	Element

J 	Element
K 	Element
L 	Element
M 	Compound
N 	Element
O 	Compound
P 	Compound
Q 	Element

INSTRUCTIONS: Use the words in the box below to fill in the blanks based on what you have learned about elements and compounds. Words may be used more than once or not used at all.

Word Bank

one	calcium	atom	chemical	oxygen	silicon	compound	simpler
element	Periodic Table		hydrogen	calcium	atmosphere		phosphorus

CLOZE 1

An Element is a substance that cannot be broken down into Simpler substances. Within an element an Atom is the smallest particle of an element than maintains the Chemical identity of the element. All known elements are represented on the Periodic Table of Elements. These elements are represented on this table by one or two letter symbols. A substance that consists of two or more different elements is a Compound. The solid parts of Earth are made of mostly Oxygen and Silicon. Living matter is made up of mostly of oxygen, carbon, hydrogen, nitrogen, Calcium, and Phosphorus. The oceans are made up of Oxygen and hydrogen. The Atmosphere is made up mostly of nitrogen and oxygen.