

Name \_\_\_\_\_ period \_\_\_\_\_

## 8<sup>th</sup> grade DO NOW

### WEEK 5

8.5D Recognize that chemical formulas are used to identify substances and determine the number of atoms of each element in chemical formulas containing subscripts.

Use the chemical reaction below for each of the next questions.



Date \_\_\_\_\_

The reaction above shows what happens when barium nitrate and sodium chloride are mixed. According to the chemical reaction, how many atoms of oxygen are found on the product side of the equation?

1. Underline the question.
2. Box the important vocabulary words.
3. Tell something else you know about this topic.  
\_\_\_\_\_  
\_\_\_\_\_
4. Answer the question in the space below.

Date \_\_\_\_\_

In the reaction of barium nitrate and sodium chloride shown how many molecules of sodium chloride are found on the reactant side of the equation?

1. Underline the question.
2. Box the important vocabulary words.
3. Tell something else you know about this topic.  
\_\_\_\_\_  
\_\_\_\_\_
4. Answer the question in the space below.

Date \_\_\_\_\_

When barium nitrate and sodium chloride are mixed together they produce barium chlorite and sodium nitrite. What is the total number of atoms in the chemical formula of barium chlorite ( $\text{BaCl}_2$ )?

1. Underline the question.
2. Box the important vocabulary words.
3. Tell something else you know about this topic.  
\_\_\_\_\_  
\_\_\_\_\_
4. Answer the question in the space below.

Date \_\_\_\_\_

Some chemical formulas contain subscripts. The subscripts tell us how many atoms of each element are found in the molecule. How many atoms are in each element of the chemical formula  $C_8H_9NO_2$ ?

1. Underline the question.
2. Box the important vocabulary words.
3. Tell something else you know about this topic.

4. Answer the question in the space below.

Date \_\_\_\_\_

Many chemical formulas have coefficients in front of them. This tells us the number of molecules of that compound we have. If you have a coefficient in front of the formula you must multiply the number of atoms in the formula times the coefficient to get the total number of atoms. How many atoms are in each element of the chemical formula  $2Fe_2O_3$ ?

1. Underline the question.
2. Box the important vocabulary words.
3. Tell something else you know about this topic.

4. Answer the question in the space below

N	Q	N	B	M	I	L	K	Y	W	A	Y	U	N	I	V	E	R	S	E
I	P	Z	G	V	V	T	B	N	W	C	S	O	R	I	E	P	P	I	Z
N	Z	G	J	E	K	O	V	O	T	E	Z	W	D	A	V	A	I	D	R
E	C	E	M	N	Y	Y	B	I	Y	Q	Z	U	O	D	N	H	U	R	Y
I	H	O	H	U	E	A	R	T	H	R	F	I	T	P	T	U	P	B	X
F	Z	H	U	S	I	V	L	A	V	S	T	Z	E	S	S	X	S	O	A
Y	E	N	E	B	U	L	A	L	A	R	W	O	M	Y	V	T	Q	P	L
Y	R	R	C	S	E	Q	P	L	Z	E	N	R	O	N	P	H	V	X	A
S	H	A	J	R	H	X	X	E	H	B	L	A	C	K	H	O	L	E	G
O	U	D	W	D	P	A	G	T	D	I	O	O	J	Z	X	H	X	N	Y
Q	G	P	D	X	T	M	Z	S	K	V	A	S	U	K	W	C	O	U	R
M	V	N	E	O	N	Y	Y	N	I	I	M	Q	P	R	S	V	T	T	U
U	P	P	N	R	R	V	R	O	H	Y	B	X	I	N	D	S	R	P	C
M	A	R	S	F	N	B	C	C	E	S	Q	Q	T	K	I	T	B	E	R
O	E	E	E	P	N	O	I	D	V	J	V	Y	E	Z	O	R	L	N	E
T	H	A	A	L	U	H	V	T	W	V	L	K	R	B	R	O	G	M	M
U	R	M	R	I	J	L	J	A	G	U	P	J	I	U	E	E	Q	W	Y
L	R	I	D	S	A	T	U	R	N	K	L	S	Z	A	T	T	I	Y	H
P	K	M	P	N	O	F	P	X	N	C	J	R	A	V	S	E	X	I	U
D	L	F	N	Y	A	J	Y	H	W	E	X	U	K	C	A	M	A	I	A

Mercury  
Venus  
Saturn  
Mars

Jupiter  
Neptune  
Uranus  
Pluto

Earth  
Comet  
Meteor  
Galaxy

Universe  
Asteroids  
Blackhole  
Milkyway

Nebula  
Supernova  
Constellation  
Orbit