

Name \_\_\_\_\_

Date \_\_\_\_\_

## Elements and Compounds Vocabulary List & Definitions

density	the ratio of mass to volume.
electron	a negatively charged particle, considered a fundamental unit of matter, that exists independently or outside the nucleus of an atom.
element	any of the substances, now numbering 107, that cannot be chemically separated into simpler substances.
mixture	the product of mixing two or more items or substances together.
molecule	a single atom or several atoms bound together electro magnetically, forming the smallest particle that possesses all the characteristic physical and chemical properties of an element or compound.
neutron	an elementary particle having no charge, spin of one-half, and mass approximately equal to a proton, present in the nucleus of all atoms except the common isotope of hydrogen.
symbol	something that represents something else, esp. a material sign or object that stands for a complex or abstract concept.
volume	the amount of space occupied by a three-dimensional object.
compound	a substance formed by the union of two or more chemical elements in fixed proportions, with properties different from those of its constituents.

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## Element Symbols

Directions: Give the symbol for each of the named elements below.

Element	Symbol
a. nickel	
b. osmium	
c. fluorine	
d. calcium	
e. barium	
f. lead	
g. iodine	
h. radium	
i. platinum	
j. plutonium	
k. silicon	
l. xenon	

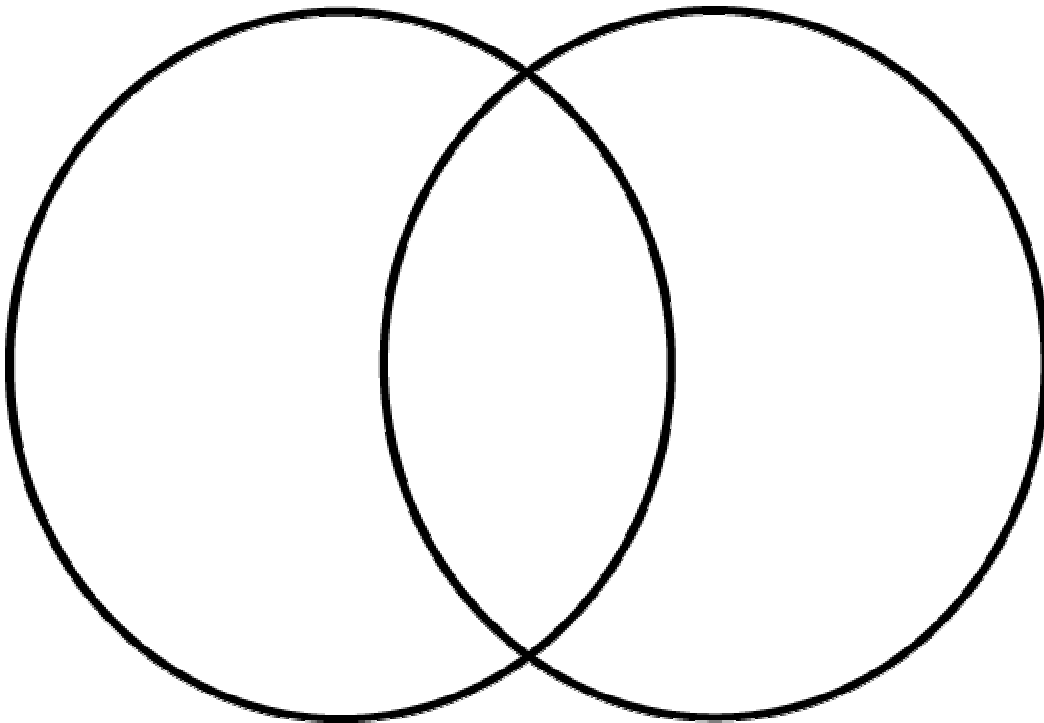
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## Comparing Elements and Compounds Venn Diagram

**Elements**

**Compounds**



Name \_\_\_\_\_

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## Element Symbols

Directions: Give the symbol for each of the named elements below.

Element	Symbol
a. helium	
b. barium	
c. tin	
d. gold	
e. chlorine	
f. copper	
g. argon	
h. aluminum	
i. bromine	
j. zinc	
k. titanium	
l. radon	

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## Element Symbols

Directions: Give the symbol for each of the named elements below.

Element	Symbol
a. lithium	
b. potassium	
c. carbon	
d. silver	
e. sulfur	
f. fluorine	
g. nitrogen	
h. oxygen	
i. boron	
j. hydrogen	
k. helium	
l. sodium	

Name \_\_\_\_\_

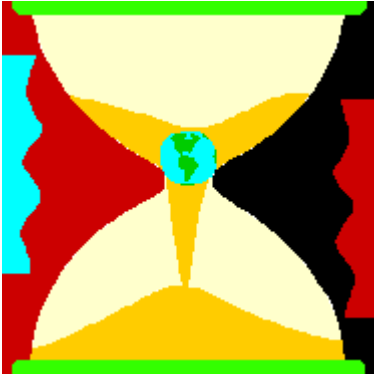
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## Elements & Compounds Word Search Worksheet

**Directions:** All words are positioned left to right, right to left, and diagonally.

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

ELEMENT	MOLECULE	MIXTURE	COMPOUND
DENSITY	NEUTRONS	PROTRONS	
SYMBOL	ELECTRONS	VOLUME	



# Do The Research!

## Elements

**Directions:** Research the topic indicated to the right, and answer the questions below, based on that topic.

Topic: Little Known Facts

<p>1. What element from the periodic table has the highest monetary value per unit?</p>	<hr/> <hr/> <hr/> <hr/>
<p>2. Which element forms compounds with all other elements except helium, neon, and argon?</p>	<hr/> <hr/> <hr/> <hr/>
<p>3. Which element has a half-life of only 8 seconds?</p>	<hr/> <hr/> <hr/> <hr/>

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## Elements and Compounds Vocabulary Quiz

**Directions:** Match the vocabulary words on the left with the definitions on the right.

- |             |   |
|-------------|---|
| 1. volume   | something that represents something else, esp. a material sign or object that stands for a complex or abstract concept.   |
| 2. element  | made up of two or more parts or elements.   |
| 3. symbol   | the product of mixing two or more items or substances together.   |
| 4. mixture  | the state or condition of being dense.  |
| 5. molecule | a single atom or several atoms bound together electro magnetically, forming the smallest particle that possesses all the characteristic physical and chemical properties of an element or compound. |
| 6. compound | a negatively charged particle, considered a fundamental unit of matter, that exists independently or outside the nucleus of an atom.  |
| 7. neutron  | a collection of pages of writing or print bound together; book.   |
| 8. electron | an elementary particle having no charge, spin of one-half, and mass approximately equal to a proton, present in the nucleus of all atoms except the common isotope of hydrogen.                     |
| 9. density  | a part of any whole.  |



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## Elements Acrostic Poem

An acrostic poem is one where you choose a word or name and use each letter in the name as the beginning of a word or line that tells something about that person or topic.

Example: An acrostic poem using the word "Sun."

**S**ometimes when we go to the beach, I will get sunburn.

**U**sually, if I put sun block on my skin, I will not burn.

**N**oon is when I'm really prone to burning.

Write an Acrostic Poem using the word below.

E

L

E

M

E

N

T

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## Element Names

Directions: Give the name for each of the element symbols below.

Symbol	Element
Kr	
Na	
K	
Ar	
Al	
Si	
Pb	
Sn	
Mg	
Be	
Cl	
Xe	

Name \_\_\_\_\_ Date \_\_\_\_\_

## Element Names

Directions: Give the name for each of the element symbols below.

Symbol	Element
Cs	
C	
N	
O	
B	
H	
He	
F	
P	
S	
I	
W	

Name \_\_\_\_\_ Date \_\_\_\_\_

## Element Names

Directions: Give the name for each of the element symbols below.

Symbol	Element
Ni	
Os	
F	
Ca	
Ba	
Pb	
I	
Ra	
Pt	
Pu	
Si	
Xe	

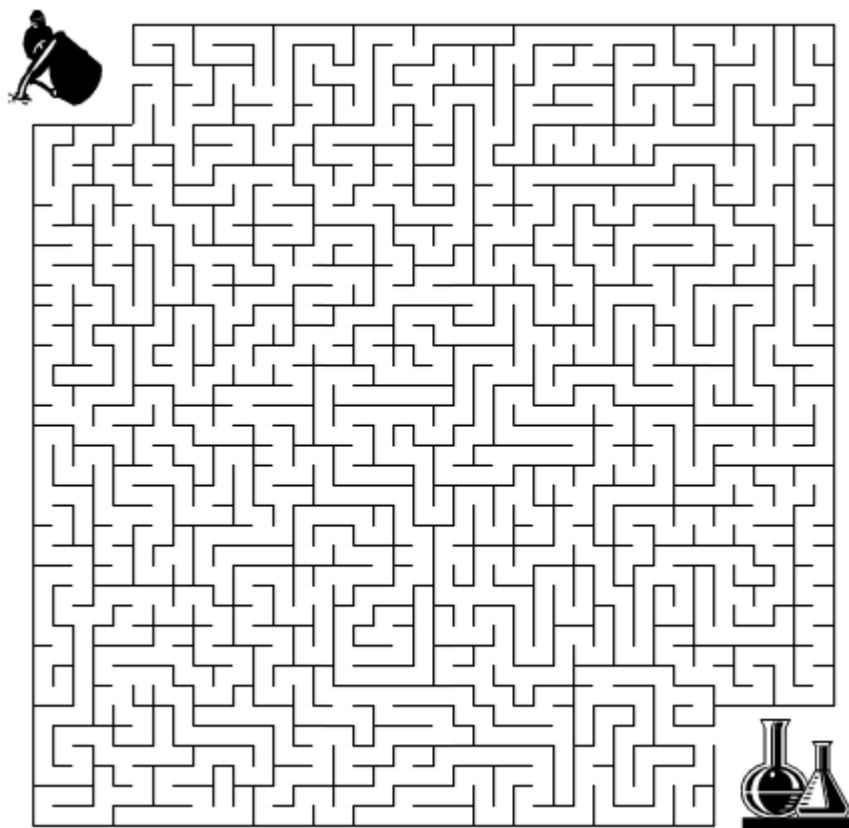
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## Chemical Maze Worksheet

### Directions:

Guide the liquids to the flasks.



Name \_\_\_\_\_

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## Elements & Compounds KWL Worksheet

<b>K</b> <i>What I Know</i>	<b>W</b> <i>What I Want To Learn</i>	<b>L</b> <i>What I Have Learned</i>

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# If I Was A.... ? Worksheet

## Chemical Elements

<p>1. Choose any element from the Periodic Table. Pretend you are this element for the remaining questions.</p>	<p>_____</p> <p><b>Elements Name</b></p>
<p>2. How many electrons, protons, and neutrons do you have?</p>	<p>_____</p> <p>_____</p> <p>_____</p>
<p>3. How are you used commercially (in the business world)?</p>	<p>_____</p> <p>_____</p> <p>_____</p>
<p>4. At what temperature do you:</p> <p>Boil? Melt?</p>	<p>_____</p> <p>_____</p> <p>_____</p>
<p>5. On what date were you discovered? Who discovered you?</p>	<p>_____</p> <p>_____</p> <p>_____</p>

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## Elements Cryptogram Worksheet

Directions: Unscramble the words by placing the correct letter in the shaded boxes. Use the numbered boxes to complete the answer to the riddle.

### RIDDLE:

What is the name of the last element to be added to the Universal Periodic Table?

DUOMPONC



NTESYID



NMLETEE



2 1

USNOTENR



7 6 5

UEIMXTR



3

MOYBLS



OORRTPSN



4

LUEOLMCE



VMUELO



### ANSWER:



1 2 3 4 5 2 6 3 7 1



# Compounds and Elements Group Creative Writing

**Directions:** As a group, you have 25 minutes to write a brief story using the words below.

ELEMENT	MOLECULE	MIXTURE	COMPOUND
DENSITY	NEUTRONS	PROTRONS	
SYMBOL	ELECTRONS	VOLUME	

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Name \_\_\_\_\_

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# Compounds and Elements Word Chop Worksheet

**Directions:** The table below contains words that have been chopped in half. Find the pieces that fit together and write them in the answer area below.

ture	sym	mole	ment
rons	comp	ound	sity
prot	bol	ele	den
trons	mix	neut	ume
rons	cule	elec	vol

**Answers:**

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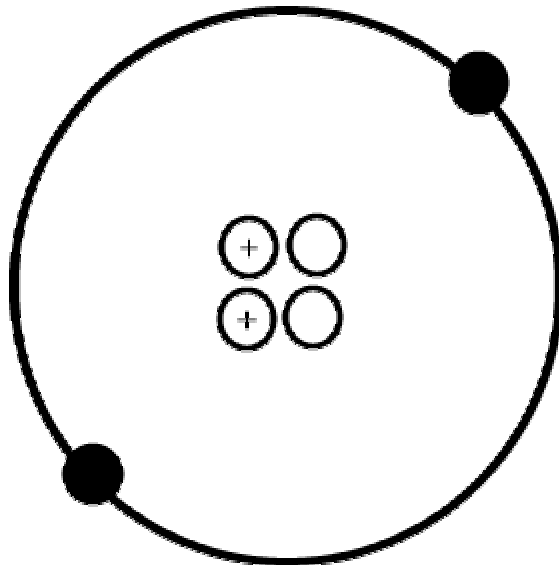
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## Parts of An Atom

Directions:

Label the parts of the atom pictured below. Make sure to include all of the words in the word bank.

Electron, Nucleus, Neutron, Proton, Orbit (Shell)



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