

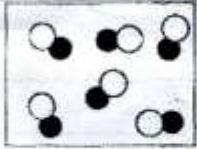
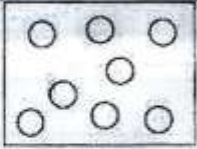

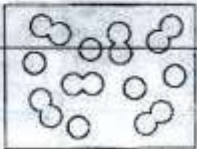
1

compounds
Chemistry esgroot@madison.k12.wi.us

CONVERSE ALL STAR

Name Answers
Period _____

Categorize each square as either mixture, element, or compound:



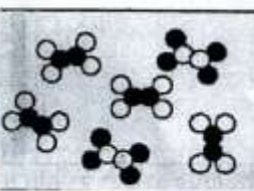
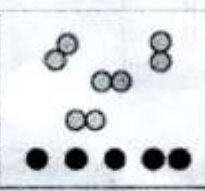
 A	 B
 C	 D

A COMPOUND
B ELEMENT
C MIX
D MIX

2

2. Into the blanks below write the following words: *Mixtures, Mixtures of Compounds, Mixtures of Elements, All Matter, Substances, Compounds, Elements, Mixtures*

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graph TD
    A[ALL MATTER] --> B[SUBSTANCES]
    A --> C[MIXTURES]
    B --> D[ELEMENTS]
    B --> E[COMPOUNDS]
    C --> F[MIXTURE OF COMP.]
    C --> G[MIXTURE OF ELEMENTS]
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Bronze contains 90 to 95 percent copper and 5 to 10 percent tin. Because these percentages can vary, bronze is classified as

- 1) a compound
- 2) an element
- 3) a mixture
- 4) a substance

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6. Under each box write *solid, gas, or liquid*.

<u>GAS</u>	<u>LIQUID</u>	<u>SOLID</u>

Circle your choice, These boxes *all* contain a
Element?
Compound?
Mixture?

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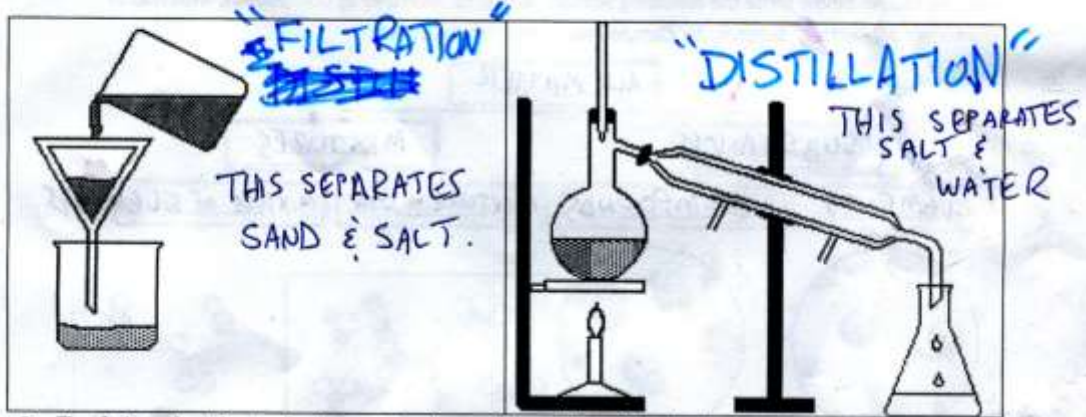
7. Under each box write *solid, gas, or liquid*.

<u>GAS</u>	<u>LIQUID</u>	<u>SOLID</u>

Circle your choice, These boxes *all* contain a
Element?
Compound?
Mixture?

8

8. Identify the separation techniques pictured below. Which technique would be useful to separate a mixture of sand and salt? Of salt and water?



9. Explain why the technique at left would not be effective in separating a mixture of salt and sugar.

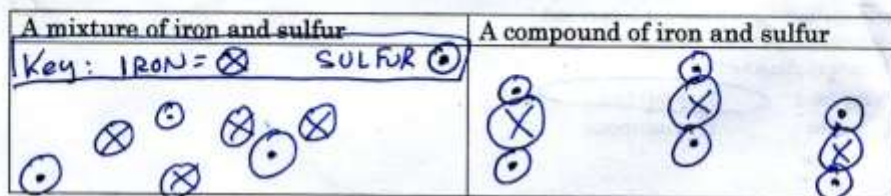
9

9. Explain why the technique at left would not be effective in separating a mixture of salt and sugar.

BOTH SALT AND SUGAR WOULD DISSOLVE IN WATER, SO BOTH WOULD PASS THROUGH THE FILTER.

10

10. Draw particle representations for the following:



↑
THIS IS A COMPOUND BECAUSE
THE MOLECULES ALL LOOK
THE SAME, THEY ALL HAVE
A FIXED RATIO CONSTANT RATIO
OF ATOMS