

Chapter 4 Notes Review Worksheet  
Chemistry

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Hour: \_\_\_\_\_

1. Match the following historical figures and scientists to what they are best known for:

\_\_\_\_\_ Joseph Louis Proust

\_\_\_\_\_ Alchemists

\_\_\_\_\_ Isaac Newton and Robert Boyle

\_\_\_\_\_ Antoine Lavoisier

\_\_\_\_\_ Aristotle

\_\_\_\_\_ John Dalton

\_\_\_\_\_ Democritus

A. first to coin the word “atom”

B. matter is continuous (no atoms)

C. tried to turn lead into gold

D. published articles supporting the idea of atoms

E. Law of Conservation of Mass

F. Law of Definite Proportions

G. “father of the Atomic Theory”

2. What are TWO ways Democritus’s ideas about matter were different from those of Aristotle?

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3. List FOUR ideas of the Atomic Theory:

a) \_\_\_\_\_

b) \_\_\_\_\_

c) \_\_\_\_\_

d) \_\_\_\_\_

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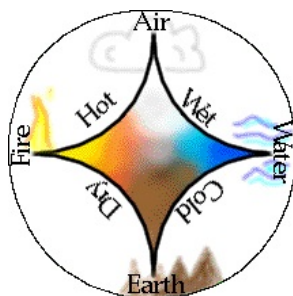
4. Chromium and oxygen can combine to make two compounds,  $\text{CrO}_3$  (red chromium oxide) and  $\text{Cr}_2\text{O}_3$  (green chromium oxide).

(a) Which law does this statement demonstrate? \_\_\_\_\_

\_\_\_\_\_

(b) Who came up with this law? \_\_\_\_\_

5. Use the following diagram to answer the two questions below:



(a) Whose idea is this diagram demonstrating? \_\_\_\_\_

(b) Explain what is being shown in this diagram: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

6. (a) What is the difference between a theory and a law? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(b) List two laws mentioned in today's lesson: \_\_\_\_\_

\_\_\_\_\_

(c) List two theories mentioned in today's lesson: \_\_\_\_\_

\_\_\_\_\_

7. (a) What were the alchemists searching for? \_\_\_\_\_

\_\_\_\_\_

(b) Is it possible to turn lead (or copper) into gold (such as when we made our gold pennies)?

Explain your answer. \_\_\_\_\_