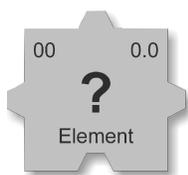


Name: \_\_\_\_\_

Date: \_\_\_\_\_ Grade: \_\_\_\_\_



## ***Chemists Who Wanted to Make Gold***

***You are making progress! Answer the following questions. Circle the correct answers or fill in the blanks with words, letters or numbers as each question indicates. Check your answers from the Answer Key. Correct all errors, then complete your next goal.***

1. The science that deals with the composition, properties and changes of matter is:  
\_\_\_\_\_.  
(a) biology      (b) chemistry      (c) physics      (d) calculus
2. The label on a box of raisin bran cereal reads, "contents may separate during transport."  
The contents of the box are most likely a(n): \_\_\_\_\_.  
(a) *compound*      (b) *mixture*      (c) ***element***      (d) solid
- \*3. The combination of water, sand, gravel and gold is a: \_\_\_\_\_.  
(a) medley      (b) compound      (c) mixture      (d) solid
4. The atmosphere is an example of a(n): \_\_\_\_\_.  
(a) element      (b) compound      (c) mixture      (d) solid
5. Pure water is an example of a(n): \_\_\_\_\_.  
(a) element      (b) compound      (c) mixture      (d) solid
6. Salt is an example of a(n): \_\_\_\_\_.  
(a) element      (b) compound      (c) mixture      (d) solid
7. Gold was known in ancient times.  
(a) True    or    (b) False
8. ***Inert*** means that a substance will combine with others easily.  
(a) True    or    (b) False
9. Gold is not very malleable.  
(a) True    or    (b) False
- \*10. A substance whose shape can be changed by beating on it is: \_\_\_\_\_.  
(a) brittle      (b) *malleable*      (c) abused      (d) solvent
11. If gold is used for jewelry and coins, the effect is that it: \_\_\_\_\_.  
(a) is too soft and will wear away      (c) will turn green if worn too long  
(b) will tarnish      (d) is too hard

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

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\*12. If copper is mixed with gold, the gold will be harder.

- (a) True or (b) False

\*13. Two rings are the same size, but one is 8 carat gold; the other is 14 carat gold. Which of the two rings has more gold? \_\_\_\_\_.

- (a) 8 carat (c) They will have the same amount  
(b) 14 carat (d) Cannot tell

14. The person more likely to announce a new discovery is a(n): \_\_\_\_\_.

- (a) gold prospector (b) alchemist (c) chemist (d) student

15. Chemistry is a science based on truth and alchemy is a false science.

- (a) True or (b) False

16. Write the **Life Principle**: “ \_\_\_\_\_  
\_\_\_\_\_.”