

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

Physical Science

Guided Reading 15-1

1. Define the following

a. Suspension \_\_\_\_\_  
\_\_\_\_\_

b. Colloid \_\_\_\_\_  
\_\_\_\_\_

c. Solution \_\_\_\_\_  
\_\_\_\_\_

2. What are elements? How many are naturally found on earth? \_\_\_\_\_  
\_\_\_\_\_

3. Examine Figure 2 and answer the following

a. Which element is radioactive? \_\_\_\_\_

b. Which element is especially important for plants? \_\_\_\_\_

c. A family member is getting a knee replacement, which element would their doctor be using? \_\_\_\_\_

4. Why do you wear a lead apron when having dental x-rays?

\_\_\_\_\_  
\_\_\_\_\_

5. What's a compound?

\_\_\_\_\_  
\_\_\_\_\_

6. Examine figure 4, are the physical and chemical properties of a compound the same or different from the parent elements?

\_\_\_\_\_  
\_\_\_\_\_

7. What's a heterogeneous mixture? What are two specific types of heterogeneous mixtures?

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8. What states of matter are present in a suspension?

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9. How is a colloid different from a suspension?

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10. Give two examples of a colloid.

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11. What's a homogeneous mixture?

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12. Examine Figure 10, Why is fizzy pop considered a heterogeneous mixture, but flat pop is a homogenous mixture?

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13. Are solutions only made from a solid dissolving in a liquid?

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14. Name two specific ways that mixtures are different from compounds.

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15. Think Critically: Why do the words "Shake well before using" indicate that the fruit juice in a carton is a suspension? Why are these words not used on a milk container?

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