

Chapter 15 Test Review Physical Science

Answer the following questions on a separate piece of paper. If you are working on a problem make sure to show your work to receive credit! If the answer requires units, **make sure to include the unit.**

1. Explain the difference between a colloid and a suspension.
2. Is milk a solution, colloid, or suspension?
3. What are the two parts of a solution?
 - a. Explain these two parts.
4. Is sand mixed in water a solution, colloid, or suspension?
5. Is kool-aid a solution, colloid, or suspension?



6. Is the above picture a solution, colloid, or suspension?
 - a. Explain why.
 - b. Is it homogeneous, or heterogeneous?



7. Is the above picture a solution, colloid, or suspension?
 - a. Explain why.
 - b. Is it homogeneous, or heterogeneous?

8. What are 4 indications a chemical reaction (chemical change) has taken place?
9. Is cutting a piece of paper a physical or chemical change?
10. What type of change has to occur to create something new?
11. What two types of matter are pure substances?
12. Name 3 characteristics of a compound.
13. Name 3 characteristics of a mixture.
14. What is the easiest way to tell if something is an element?
15. What is the smallest piece of an element?
16. Give two examples of elements.
17. What is the law of conservation of mass?
18. How is a physical change different than a chemical change?
19. How is a chemical change different than a chemical property?
20. What are 4 physical properties that you could use for an ice cube?
21. What are 4 physical changes that you could make to an ice cube?
22. Is coffee an element, compound, or mixture?
 - a. What is the evidence for this?
 - i. Is this a colloid or solution?
 1. What is your evidence for this?
23. Is pizza an element, compound, or mixture?
 - a. What is your evidence for this?
24. What type of matter has a chemical formula: element, compound, or mixture?
 - a. Why is this?
25. Is salt (NaCl) an element, compound, or mixture?
 - a. Give 2 reasons for your choice.
26. What type of mixture will separate into layers?
27. What type of mixture will scatter light?
28. What type of mixture does one thing dissolve in another?
29. Select all that can be homogeneous: element, compound, mixture
30. Select all that can be heterogeneous: element, compound, mixture
31. How can you separate salt and pepper? Be very specific.
32. What is the smallest piece of a compound called?
33. What is the definition of matter?
34. Is mass lost during physical or chemical changes?
 - a. Explain.