

## Across

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1. Substance that can NOT be broken down into anything smaller
4. Resistance of a fluid to flow
5. When a substance changes into one or more NEW substances
7. Characteristics of a substance that can be observed without changing the substance
9. Two or more liquids that do dissolve into each other
13. anything that has mass and volume
14. Two or more liquids that do not mix into each other
16. All matter is made of atoms and molecules that act like tiny particles - they always remain in motion
17. Heterogeneous mixture that separates into layers over time
19. Flammability or rusting are \_\_\_\_\_ properties
20. Describes the way a substance reacts when it changes
26. A combination of two or more pure substances
28. Separates materials based on the size of the particles
29. H<sub>2</sub>O - example of a molecule
30. Law of conservation of energy states that \_\_\_\_\_ cannot be created or destroyed.
31. Mixtures can be \_\_\_\_\_ into their parts
34. The higher the temperature, the \_\_\_\_\_ the particles move
36. Substance that always tastes the same
37. Separates materials based on their boiling points
38. Substances that are mixed well
39. Has definite shape and volume
41. In a chemical change, nothing is created or destroyed, just \_\_\_\_\_.
46. Solid to gas
47. made up of different elements and or compound
48. Material's ability to allow heat to flow
49. Substances that dissolve and form a homogeneous mixture
50. When a substance's appearance changes - looks different but atoms are not rearranged

## Down

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2. Something that is NOT matter
3. Density over 1 will \_\_\_\_\_
6. Shows how many atoms of each element are in the basic unit of a substance
8. Going from a solid to liquid to gas.
10. NaCl - compound
11. Most physical changes can be \_\_\_\_\_.
12. Definite volume, no definite shape
15. Substances that are NOT mixed well
18. The \_\_\_\_\_ the particles, the slower they move
19. Gas to liquid
21. Substance made up of two or more elements
22. Mass cannot be \_\_\_\_\_ or destroyed
23. Liquid to gas
24. Smallest particle that has the properties of elements
25. No definite volume or shape
27. Matter that always has the exact same composition
28. Liquid to solid
32. Mass divided by volume
33. Elements are found in this
35. Ability of a solid to be hammered or shaped without shattering
40. Viscosity, malleability, shape, hardness are all \_\_\_\_\_ properties
42. Elements are made of these
43. Solid to liquid
44. Contains particles that are intermediate in size between the small and large (Parts can't be filtered or separated)
45. Density under 1 will \_\_\_\_\_

