Matter Homework Packet

Name	
	Period
Physical and Chemical Changes and	d Properties of Matter Worksheet
Classify the following as chemical change (cc), (pc), or physical property (pp).	chemical property (cp), physical change
 Heat conductivity Silver tarnishing sublimation magnetizing steel length of metal object shortening melting exploding dynamite Identify the following as being true or false to t 15. A change in size or shape is a physical 16. A chemical change means a new substa 17. An example of a chemical change is wh 18. When platinum is heated, then cooled t change. 19. When milk turns sour, this is a physical indicate a chemical change. 20. When citric acid and baking soda mix, decreases. This must be a chemical ch 	change. ance with new properties was formed. hen water freezes. to its original state, we say this is a physical I change because a change in odor does not carbon dioxide is produced and the temperature
Identify each of the following as a physical or c 21 You leave your bicycle out in the rain a	
22 A sugar cube dissolves.	
23 Scientist break-up water into oxygen ar	nd hydrogen gas.
24 Burning coal for a barbecue.	
25 Trimming a bush because it has grown	n too tall.

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Classifying Matter Worksheet

Classify each of the following substances as an element, a compound, a solution (homogenous mixture, or a heterogeneous mixture.

1. Sand	2. Salt	3. Pure Water
4. Soil	5. Soda just opened	6. Pure air
7. Carbon Dioxide	8. Gold	9. Brass

- 10. Oxygen 11. Italian Salad Dressing 12. Salt Water
- 13. Raisin Bran 14. Silver 15. Lithium Iodide
- 16. Apple Pie 17. Kool Aid 18. Sugar Water
- 19. Chocolatechip Cookie 20. Gatorade 21. Gold
- 22. tacos 23.Lead 24. Ceasar Salad
- 25. Calcium 26. Whole Milk 27. Skim Milk
- 28. hydrogen peroxide 29. Potassium 30. Sugar
- 31. Raisin Bran Cereal with Milk
- 32. Raisin Bran Cereal without Milk

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Identify each of the following as an example of a physical property or a chemical property.

- 1. Silver tarnishes when it comes in contact with hydrogen sulfide in the air.
- 2. A banana is yellow.
- 3. A sheet of copper can be pounded into a bowl.
- 4. Barium melts at 725 C.
- 5. Gasoline is flammable.
- 6. A diamond is the hardest natural substance.
- 7. Helium does not react with any other element.
- 8. A bar of lead is more easily bent than is a bar of aluminum of the same size.
- 9. Potassium metal is kept submerged in oil to prevent contact with oxygen or water.
- 10. An apple will turn brown is left in oxygen.
- 11. Diamond dust can be used to cut or grind most other materials.
- 12. Acid in tomato sauce can corrode aluminum foil.
- 13. Rocks containing carbonates can be identified because they fizz when hydrochloric acid is applied.
- 14. A piece of charcoal, which is mostly the substance carbon, glows red, gives off heat, and becomes a gray ash.