Grade 7 Science Pure Substances and Mixtures Chemical and Physical Properties

Name:	_ Class:	Dat	e:
Classify the following as cherchange (pc), or physical proper		(cc), chen	nical property (cp), physical
1 Heat conductivity			_ Combustible
2 Silver tarnishing			_ Water freezing
3 Sublimation			Wood burning
4 Magnetizing steel	• ,		Acid resistance
5 Length of a metal ob	ject		Brittleness
6 Shortening melting			Milk souring
7 Exploding dynamite		14	Baking bread
Identify the following as being	g true or false	e to the le	ft of each sentence
chemical change.	eans a new surtical change is ted and then contains is a physhange.	bstance was when was ooled to insical change in the change in the carbon	ith new properties is formed. Iter freezes. It's original state, we say this is a ge because a change in odor does not n dioxide is produced and the
Identify each of the following	as a physical	l or chem	ical change.
21 You leave your bicyc		ain and it	rusts.
22 A sugar cube dissolv			
23 A scientist breaks up	_	drogen ar	nd oxygen gas.
24 Burning coal for a ba			
25. Trimming a bush bec	eause it has or	own too t	a11

Physical and Chemical Changes and Properties of Matter Worksheet

Classify the following as chemical change (cc), chemical property (cp), physical change (pc), or physical property (pp).

1.	PP	Heat conductivity	8. CP	Combustible
2.	CC	Silver tarnishing	9. PC	Water freezing
3.	PC	sublimation	10. CC	Wood burning
4.	PC	magnetizing steel	11. CP	Acid resistance
5.	PP	length of metal object	12. PP	Brittleness
6.	PC	shortening melting	13. cc	Milk souring
7.	CC	exploding dynamite	14. cc	baking bread

Identify the following as being true or false to the left of the sentence.

	T	15. A change in size or shape is a physical change.
		16. A chemical change means a new substance with new properties was formed.
		17. An example of a chemical change is when water freezes.
-	T	18. When platinum is heated, then cooled to its original state, we say this is a physical
		change.
	F	19. When milk turns sour, this is a physical change because a change in odor does not
		indicate a chemical change.
	T	20. When citric acid and baking soda mix, carbon dioxide is produced and the temperature
		decreases. This must be a chemical change.

Identify each of the following as a physical or chemical change.

- 21. <u>CC</u> You leave your bicycle out in the rain and it rusts.
- 22. <u>Pc</u> A sugar cube dissolves.
- 23. <u>cc</u> Scientist break-up water into oxygen and hydrogen gas.
- 24. <u>cc</u> Burning coal for a barbecue.
- 25. **Pc** Trimming a bush because it has grown too tall.