Grade 7 Science Pure and Mixed Substances

Physical and Chemical Properties

Name:_____ Class: _____ Date: _____

A physical property is observed with the senses and can be determined without destroying the object or material. For example, colour, shape, mass, density, length, and odor are examples of physical properties.

A chemical property indicates how a substance reacts with something else. The original substance or object is fundamentally changed in observing a chemical property. For example, the ability of iron to rust is a chemical property. The iron reacts with oxygen, and the original iron metal is changed. Now it exists as iron oxide, a different substance.

Classify the following properties as either chemical or physical by putting a check mark in the appropriate column.

	Physical Property	Chemical Property
1. blue colour		
2. density		
3. flammability		
4. solubility		
5. reacts with acid to form H_2		
6. supports combustion (burning)		
7. sour taste		
8. melting point		
9. reacts with water to form a gas		
10. reacts with water		
11. hardness		
12. boiling point		
13. breaks easily		
14. is magnetic		
15 good conductor of heat and electricity		