Chemistry

Physical and Chemical Properties

Name

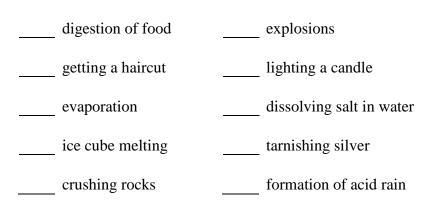
1 Fill in the Blanks

properties can be observed without chemically changing matter.		
properties describe how a substance interacts with other substances.		
have definite shapes and definite volumes.		
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Phase changes are changes	point is the temperature at which a	
liquid turns to a solid. It is also equal to the	point which is the temperature at	
which a turns to a	point is the temperature at	
which a liquid turns to a gas, and point is the temperature at which a gas turns to		
a liquid. Occasionally, a solid turns directly into a gas without turning into a liquid first. This is		
called		

2 Label these properties as chemical (C) or physical (P). Be certain to know the definition of each of these properties.

combustibility	tendency to corrode	Sour taste
density	weight	oxidizing ability
malleability	volume	Reactivity with water
failure to react	odor	State of matter
melting point	flammability	Solubility in water
ductility	texture	color

3 Label these changes as chemical (C) or physical (P).



4 Describe the change(s) that you see in the following illustration. Was this a physical or a chemical change?



- 5 State whether each of the following represents a chemical change (C) or a physical change (P):
 - (a) A steak is cooked on a grill until well done.
- (b) In the lab, students firepolish the end of a glass rod. The jagged edge of the glass has become smooth.
- (c) Chlorine bleach is used to remove a coffee stain on a white lab coat.
- _____(d) When two clear and colorless aqueous salt solutions are mixed together, the solution turns cloudy and yellow.
- (e) One gram of an orange crystalline solid is heated in a test tube, producing a green powdery solid whose volume is 10 times the volume of the original substance.
 - (f) In the lab, a student cuts a 20-cm strip of magnesium metal into 1-cm pieces.