

WORKSHEET ON CHEMICAL VS PHYSICAL PROPERTIES AND CHANGES

Keep this in your binder as a study guide! You will have a quiz on this next class!

Background: Keeping the difference between physical and chemical properties as well as changes can be a challenge! This worksheet will help you do this. First, use the book to define the following terms.

VOCABULARY WORD	DEFINITION
Physical Property	
Physical Change	Change in which the identity of the substance does NOT change
Chemical Property	
Chemical Change	

Part One: Physical or Chemical Property? Fill in the chart using the vocabulary words or phrases provided.

Vocabulary words

Boiling point	Ability to rust	Melting point Brittleness		Reactivity with
				vinegar
elasticity	Flammability	Density	Transparency	ductility

Each word is used once. Define the word when done!

Chemical Property↓	Definition
	The ability to burn
	Reacts with oxygen to produce rust

Physical Property↓	Definition
	 The property of letting light pass through something

Part Two: Physical or Chemical Change? Indicate with a 'P' or a 'C' which type of change is taking place.

1	glass breaking	10	mixing salt and water
2	hammering wood together	11	mixing oil and water
3	a rusting bicycle	12	water evaporating
4	melting butter	13	cutting grass
5	separate sand from gravel	14	burning leaves
6	bleaching your hair	15	fireworks exploding
7	frying an egg	16	cutting your hair
8	squeeze oranges for juice	17	crushing a can
9	melting ice	18	boiling water

Physical and Chemical Properties Extensive and Intensive Properties

Name:

Property	Physical Property	Extensive Property	Intensive Property
magnetic			
malleable (can be hammered thin without breaking)			
temperature			
flammable			
red color			
reacts violently with sodium			
length			
mass			
produces a different gas when heated			
dissolves in water			
soluble in alcohol			
blue color			
rough texture			
sweet taste			
density			
reacts with acid to form hydrogen			
sour taste			
melting point			
boiling point			
hardness			
luster (how shiny it is)			
odor			