

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



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PROPERTIES AND CHANGES



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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	Characteristics of matter that can be seen through direct observation such as density, melting point, and boiling point		
Physical Change	Change in which the identity of the substance does NOT change		
Chemical Property	Characteristic of matter that can only be observed when one substance changes into a difference substance, such as iron into rust		
Chemical Change	Transforms one type of matter into another kind, which may have different properties.		

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	Freezing point	Transparency	ductility

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

Chemical Property↓ Definition	
 flammability 	 The ability to burn
 Ability to rust 	 Reacts with oxygen to produce rust
 Reactivity with vinegar 	 Reacts with vinegar to produce new substances

Physical Property↓	Definition		
 transparency 	 The property of letting light pass through something 		
 Boiling point 	 Temperature at which a substance goes from liquid to gas 		
 Melting point 	 Temperature at which a substance goes from solid to a liquid 		
 Brittleness 	 Tendency to crack or break 		
 Ductility 	 Ability to bend without breaking 		
 Elasticity 	 Ability to be stretched or compressed then return to original size 		
 Density 	 Mass per unit volume 		

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

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