

Name : _____ Date : _____

Chemical and Physical Properties

Part A

Classify the following properties as either physical or chemical by putting a checkmark (✓) in the appropriate column.

	Physical Property	Chemical Property
Boiling point		
Reacts with a base to form water		
Malleability		
Can neutralize a base		
Length of an object		
Conductivity		
Gives off toxic gases		
Coordination number		
Ignites immediately		
Smelly substance		

Part B

State whether each of the following is a physical or chemical property.

1. The sulfur is yellow _____
2. Iron reacts with sulfur to give heat and flame _____
3. Baking soda with acid produces bubbles of gases _____
4. Metal can be rolled into flat sheets _____
5. Oxygen is colorless, odorless, and tasteless _____
6. Copper turns green when exposed to the environment _____
7. A piece of metal is magnetic _____
8. Sodium hydroxide dissolves in water _____
9. A pellet of sodium is sliced into two _____
10. Water is heated and changes into steam _____

Chemical and Physical Properties

Answers

Part A

Classify the following properties as either physical or chemical by putting a checkmark (✓) in the appropriate column.

	Physical Property	Chemical Property
Boiling point	✓	
Reacts with a base to form water		✓
Malleability	✓	
Can neutralize a base		✓
Length of an object	✓	
Conductivity	✓	
Gives off toxic gases		✓
Coordination number		✓
Ignites immediately		✓
Smelly substance	✓	

Part B

State whether each of the following is a physical or chemical property.

1. The sulfur is yellow Physical
2. Iron reacts with sulfur to give heat and flame Chemical
3. Baking soda with acid produces bubbles of gases Chemical
4. Metal can be rolled into flat sheets Physical
5. Oxygen is colorless, odorless, and tasteless Physical
6. Copper turns green when exposed to the environment Chemical
7. A piece of metal is magnetic Physical
8. Sodium hydroxide dissolves in water Chemical
9. A pellet of sodium is sliced into two Physical
10. Water is heated and changes into steam Physical