

Name : \_\_\_\_\_ Score: \_\_\_\_\_

## Physical and Chemical Properties Worksheet

A. Identify the following as physical (P) or chemical (C) properties.

blue color _____	density _____	flammability (burns) _____
solubility (dissolves) _____	reacts with acid _____	supports combustion _____
sour taste _____	melting point _____	reacts with water _____
hardness _____	boiling point _____	shine _____
odor _____	reacts with air _____	sublimates _____

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

<u>Description</u>	<u>Physical/Chemical</u>	<u>Type</u>
1. Copper nitrate is a blue crystal	_____	_____
2. Two colorless solutions mix to give a yellow solid precipitate	_____	_____
3. Copper can be stretched into a thin wire	_____	_____
4. Copper metal reacts with nitric acid to make a brown gas	_____	_____
5. Salt, sodium chloride, is a white crystal that melts at 801 °C	_____	_____

C. Write whether the following physical properties are intensive or extensive

Property	Intensive or Extensive?
Temperature	
Area	
Ductility	
Height	
Solubility	

## Physical and Chemical Properties Worksheet

### Answers

A. Identify the following as physical (P) or chemical (C) properties.

blue color <u>  P  </u>	density <u>  P  </u>	flammability (burns) <u>  C  </u>
solubility (dissolves) <u>  P  </u>	reacts with acid <u>  C  </u>	supports combustion <u>  C  </u>
sour taste <u>  P  </u>	melting point <u>  P  </u>	reacts with water <u>  C  </u>
hardness <u>  P  </u>	boiling point <u>  P  </u>	shine <u>  P  </u>
odor <u>  P  </u>	reacts with air <u>  C  </u>	sublimates <u>  P  </u>

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

<u>Description</u>	<u>Physical/Chemical</u>	<u>Type</u>
1. Copper nitrate is a blue crystal	<u>  Physical  </u>	<u>  Color, crystal form  </u>
2. Two colorless solutions mix to give a yellow solid precipitate	<u>  Chemical  </u>	<u>  Reaction  </u>
3. Copper can be stretched into a thin wire	<u>  Physical  </u>	<u>  Ductility  </u>
4. Copper metal reacts with nitric acid to make a brown gas	<u>  Chemical  </u>	<u>  Reaction with acid  </u>
5. Salt, sodium chloride, is a white crystal that melts at 801 °C	<u>  Physical  </u>	<u>  Color, crystal form, melting point  </u>

C. Write whether the following physical properties are intensive or extensive

Property	Intensive or Extensive?
Temperature	Intensive
Area	Extensive
Ductility	Intensive
Height	Extensive
Solubility	Intensive