

Name : _____ Date : _____

Score: _____

Physical and Chemical Properties Worksheet

i. Fill in the blanks:

_____ properties can be observed without chemically changing matter. _____ properties describe how a substance interacts with other substances. _____ have a definite shape and definite volume. _____ have an indefinite shape and definite volume. _____ have an indefinite shape and indefinite volume.

ii. Label these properties as physical (P) or chemical (C).

Combustibility	_____	Density	_____
Malleability	_____	Tendency to corrode	_____
Weight	_____	Volume	_____
Failure to react	_____	Melting point	_____
Ductility	_____	Odor	_____

iii. State whether the following is a physical or chemical property and the type.

<u>Description</u>	<u>Physical/Chemical</u>	<u>Type</u>
1. Iodine gas is purple	_____	_____
2. Hydrofluoric acid is dangerous	_____	_____
3. Gold is a shiny metal	_____	_____
4. Cesium has a golden color	_____	_____
5. Mercury metal is a liquid	_____	_____

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Physical and Chemical Properties Worksheet

Answers

i. Fill in the blanks:

Physical properties can be observed without chemically changing matter. Chemical properties describe how a substance interacts with other substances. Solids have a definite shape and definite volume. Liquids have an indefinite shape and definite volume. Gases have an indefinite shape and indefinite volume.

ii. Label these properties as physical (P) or chemical (C).

Combustibility	<u>C</u>	Density	<u>P</u>
Malleability	<u>P</u>	Tendency to corrode	<u>C</u>
Weight	<u>P</u>	Volume	<u>P</u>
Failure to react	<u>C</u>	Melting point	<u>P</u>
Ductility	<u>P</u>	Odor	<u>P</u>

iii. State whether the following is a physical or chemical property and the type.

<u>Description</u>	<u>Physical/Chemical</u>	<u>Type</u>
1. Iodine gas is purple	<u>Physical</u>	<u>Color</u>
2. Hydrofluoric acid is dangerous	<u>Chemical</u>	<u>Reactivity</u>
3. Gold is a shiny metal	<u>Physical</u>	<u>Luster</u>
4. Cesium has a golden color	<u>Physical</u>	<u>Color</u>
5. Mercury metal is a liquid	<u>Physical</u>	<u>State</u>