## **Properties of Matter**



Class Date A given mass of an ideal gas is enclosed A microwave and an x-ray are traveling in a vacuum. Compared to the in a rigid-walled container. If the Kelvin wavelength and period of the microwave, temperature of the gas is doubled, its the x-ray has a wavelength that is \_\_\_\_\_. pressure will be . Circle the answer letter. a. longer and a period that is shorter a. halved b. longer and a period that is longer b. doubled c. shorter and a period that is longer c. quadrupled Which phenomenon best supports the theory that matter has a wave nature? Which graph best represents the relationship between pressure (P) and volume (V) for a. electron momentum a fixed mass of an ideal gas at constant b. electron diffraction temperature? Circle it. ately **PREVIEW** nobile tire an during essure is Please Sign In or Sign Up to download the printable version of this worksheet b. cold air in the tire producing a. temperature an increase in tire volume b. specific heat c. an increase in molecular potential c. density energy of air molecules in the tire What is the change in temperature of a Which type of force overcomes the sample of water as it is heated from its repulsive electrostatic force between freezing point to its boiling point at

standard pressure? Circle the answer.

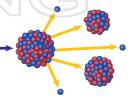
373 K 100 K

273 K 212 K protons in the nucleus of an atom?

a. magnetic

b. nuclear

c. centrifugal



© Copyright MMXVI NewPath Learning. All Rights Reserved. Permission is granted for the purchaser to make copies for

non-commercial educational purposes only. Visit us at www.newpathworksheets.com

## **Properties of Matter - Answer Key**



Name	Class	Date
A given mass of an ideal gas i in a rigid-walled container. If temperature of the gas is doupressure will be  Circle the answer letter.  a. halved b. doubled c. quadrupled  Which graph best represents between pressure (P) and volva a fixed mass of an ideal gas a temperature? Circle it.	the Kelvin bled, its  in a way the  a. b. c.  Whi the relationship ume (V) for t constant	vacuum. Compared to the velength and period of the microwave x-ray has a wavelength that is longer and a period that is shorter longer and a period that is longer shorter and a period that is longer ch phenomenon best supports the bry that matter has a wave nature? electron momentum electron diffraction
3 F C is	PREVIEW	mobile tir an during essure is
4 v Please Sign	<u>In</u> or <u>Sign Up</u> to	
the printable	e version of this	
a.) temperature b. specific heat c. density		an increase in tire volume an increase in molecular potential energy of air molecules in the tire
What is the change in temperal sample of water as it is heater freezing point to its boiling postandard pressure? Circle the 373 K 100 K  273 K 212 K	oint at answer.  a.  b.	ich type of force overcomes the ulsive electrostatic force between tons in the nucleus of an atom?  magnetic nuclear centrifugal