

SIOCON NATIONAL HIGH SCHOOL

Siocon, Compostela, Davao de Oro

FOURTH QUARTER

Name: _____

Grade & Section: _____

Date: _____

Score: _____

Parents Signature: _____

Kinetic Molecular Theory and Ideal Gas Law Worksheet

Unistructural Level:

Test I. True or False

- _____ 1. The particle of gas is moving at a constant straight nonrandom motion.
_____ 2. The combined volume of particles of gases is negligible.
_____ 3. There is no force of attraction between molecules of gases.
_____ 4. The collision between particles of gases is perfectly inelastic.
_____ 5. The higher the average Kinetic Energy of the particles of gases, the lesser the temperature.

Test II. Fill in the blanks.

- _____ 6. Proponent of Ideal Gas Law
_____ 7. Ideal Gas Law Equation
_____ 8. Value of the ideal gas constant
_____ 9. Standard unit of Pressure to use in Ideal gas.
_____ 10. Standard unit of Volume in Ideal gas.

Relational Level. Solve the following problems. Show your solution.

1. The oxygen gas is collected at a pressure of 123kPa in a container which has a volume of 10L. What temperature must be maintained on 0.500 moles of this gas in order to maintain this pressure?

Given: _____ Equation _____ Solution _____ Final Answer: _____

2. If I have an unknown quantity of 1000-ounce hydrogen gas with a pressure of 50psi at 10°F, how many moles of gases do I have?

Given: _____ Equation _____ Solution _____ Final Answer: _____