



Roatan Bilingual School
10th Grade Chemistry Evaluation
SEMESTER RECUPERATION

Name: _____ Date: _____

Ms. April Brown

100%

Read each question or exercise carefully. RESPOND IN YOUR OWN WORDS. to show your work and leave all evidence possible.

TRUE OR FALSE

Read each statement carefully. Write a T on the line next to it if it is true. Write an F if it is false and EXPLAIN WHY.

1. The formula for Carbon Monoxide is CO_2 .
2. KBr is Potassium Baromdiide.
3. NaF is a covalent compound.
4. ZnI is an ionic compound.
5. Pressure is a force or characteristic that can be measured in gasses.

The unit used to measure pressure is calories.

6. H_2O is a molecule.
7. Ne is a noble gas.
8. H_2O and N_2 are examples of matter that are in plasma state.
9. Temperature is measured ONLY in Celsius.
10. Mass is usually measured in L.
11. CaCO represents Calcium Nitrate
12. Calories are used to measure temperature.

MULTIPLE CHOICE

Circle the best answer. If your choice is "none of the above" explain why.

1. **This is a polyatomic compound**
 - a. Acetate
 - b. NaNO_3
 - c. K_3PO_4
 - d. All of the above _____
2. **Name KOH**
 - a. Cerium Oxide
 - b. Kallium Oxihydride
 - c. Potassium Hydroxide
 - d. None of the above _____
3. **What does the subscript in $\text{Al}_2(\text{SO}_4)_3$ represent?**
 - a. There is no subscript
 - b. This is a formula for a different compound
 - c. This is a covalent compound
 - d. None of the above _____
4. **Equation for a chemical reaction in which the number of atoms for each element in the reaction and the total charge is the same for both the reactants and the products**
 - a. Potassium, Copper, Carbon
 - b. Calcium, Magnesium, Silver
 - c. synthesis reaction
 - d. None of the above _____
5. **Avogadro's number**
 - a. 1×10^{23}
 - b. 6.02×10^{23}
 - c. 62.0×10^{23}
 - d. None of the above _____
6. **Unit used to measure the amount or quantity of substances in a chemical reaction.**
 - a. Liters
 - b. Moles
 - c. Atoms
 - d. None of the above _____
7. **(2.016 g/mol) is the molar mass of:**
 - a. N_2
 - b. H_2

c. Cl₂
d. None of the above _____

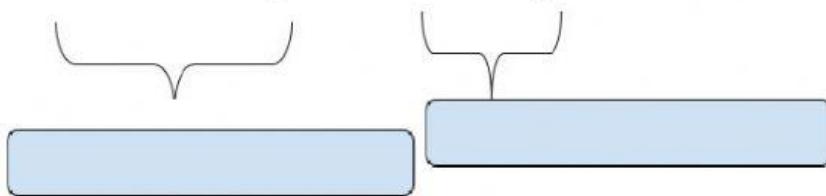
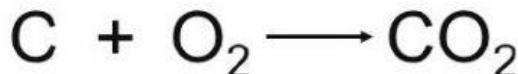
8. A state of matter in which particles are NOT tightly packed together.
a. liquid
b. plasma
c. solid
D. None of the above _____

9. In the equation CO₂ + H₂O + ATP → O₂ + C₆H₁₂O₆, which compound is part of the product?
a. H₂O
b. CO₂
c. ATP
D. None of the above _____

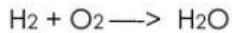
9. In the equation CO₂ + H₂O + ATP → O₂ + C₆H₁₂O₆, which compound is part of the reactants?
a. H₂O
b. C₆H₁₂O₆
c. O₂
D. None of the above _____

PRACTICAL EXERCISES

1. Name the parts of an equation



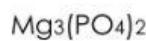
2. Balance the equations



3. Write a synthesis reaction: N, H, 2NH₃ (balance the equation)

4. Write a decomposition reaction: Zn, S, ZnS

5. Name the compounds



6. Write the formula

Glucose=

Lead Nitrate

Calcium Hydroxide

7. Tell whether single displacement or double displacement



8. Point out the subscripts.



Reactants

Iron

Hydrogen

Oxygen

Products

Iron

Oxygen

Hydrogen

9. Point out the coefficients

**Reactants**

Iron

Hydrogen

Oxygen

Products

Iron

Oxygen

Hydrogen

1. Describe the 4 states of matter discussed in class. 1pt

2. Name the following compounds. 4pts

Ca(OH)

HCl

NaCl

3. Convert the temperatures. Use the conversion factors. 2pts
110F to C

50C to F

4. Convert the amounts. Use the conversion factors. 3pts

1 L = 1000mL 1 kg = 1000g 1hr = 60min

360min to hr

600 mL to L

8900g to Kg

5. Balance the equations. 2pts



6. Find the molar mass. 4pts

Ethane C₂H₆

KCl

7. Convert from moles to grams. 2pts

7.5 moles of CO₂

10 moles of H₂

8. Convert from grams to moles. 2pts

454 g of NH₃

70g of NO₂

9. Identify the formula units. 2pts

0.533 mol NH₄

1. 65 g of H₂

CELSIUS TO FAHRENHEIT

$$T_f = \left(\frac{9}{5} T_c \right) + 32$$

FAHRENHEIT TO CELSIUS

$$T_c = \frac{5}{9} (T_f - 32)$$