

Explor^{Learning} Gizmos

Name: _____ Date: _____

Student Exploration: Stoichiometry

Vocabulary: Avogadro's number, balanced equation, cancel, coefficients, conversion factor, dimensional analysis, molar mass, mole, molecular mass, stoichiometry

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. A 250 mL glass of orange juice contains 22 grams of sugar. How much sugar is in a two-liter (2,000 mL) bottle of orange juice? _____
2. It requires two sticks of butter to make a batch of 25 cookies. How much butter will it take to make 150 cookies? _____

Gizmo Warm-up
Just as a cook follows a recipe to decide how much of each ingredient to add, a chemist uses **stoichiometry** to determine the amounts of substances involved in chemical reactions. The Stoichiometry Gizmo™ allows you to try your hand at figuring out the amounts of reactants and products that take part in a chemical reaction.

To begin, check that this equation is shown:

$$\text{Fe}_2\text{O}_3 + 3\text{CO} \rightarrow 2\text{Fe} + 3\text{CO}_2$$

Now equation:
$$\text{Fe}_2\text{O}_3 + 3\text{CO} \rightarrow 2\text{Fe} + 3\text{CO}_2$$

Now equation:
How many moles of carbon monoxide (CO) are required to react completely with 1.18 moles of iron (Fe) oxide (Fe₂O₃)?

Problem solved!

1. Look at the **coefficients** (such as the "3" in 3CO) in front of each substance in the equation. The coefficients tell you how many molecules or atoms take part in a chemical reaction. In the spaces below, list the number of each molecule or atom in the equation:
Fe₂O₃ _____ CO _____ Fe _____ CO₂ _____
2. In a **balanced equation**, the same number of each kind of atom is shown on each side of the equation. Calculate the number of iron (Fe), oxygen (O), and carbon atoms (C).
Reactants Iron: _____ Oxygen: _____ Carbon: _____
Products Iron: _____ Oxygen: _____ Carbon: _____
Based on these values, is the equation balanced? _____

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Student Exploration: Identifying Nutrients (ANSWER KEY) Download Student Exploration: Identifying Nutrients Vocabulary: carbohydrate, disaccharide, lipid, monosaccharide, polysaccharide, protein, starch Prior Knowledge Questions (Do these BEFORE using the Gizmo.) What are the major types of nutrients you can get from food? PDF answer sheet to gizmo identifying nutrients - Bing answer sheet to ...

[New Version] Answers To Identifying Nutrients Gizmo

Student Exploration: Growing Plants (answer key) Download Student Exploration: Growing Plants Answer Key Vocabulary: compost, fertilizer, mass, seed, soil, variable Prior Knowledge Questions (Do these BEFORE using the Gizmo.) 1. What do you think plants need to grow and stay healthy? 2. Soil is a combination of tiny rock fragments and decayed plant materials.

Student Exploration- Growing Plants (answer key).docx ...

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Student Exploration: Element Builder. Vocabulary: atom, atomic number, electron, electron dot diagram, element, energy level, ion, isotope, mass number, neutron, nucleus, periodic table, proton, radioactive, valence electrons . Prior Knowledge Questions (Do these BEFORE using the Gizmo.) 1. What are some of the different substances that make up ...

Student Exploration: Element Builder

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Levers Gizmo : ExploreLearning

Student Exploration: Mystery Powder Analysis. Vocabulary: Biuret solution, iodine solution, litmus paper, vinegar . Prior Knowledge Questions (Do these BEFORE using the Gizmo.) A white powder is found spilled on the kitchen floor of a crime scene. A similar powder is found on the shoes of a suspect in the crime. 1. What are some powders that ...

Student Exploration: Mystery Powder Analysis

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Student Exploration: Measuring Trees (ANSWER KEY)

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