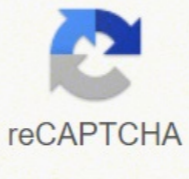




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Gizmos

Name: _____ Date: _____

Student Exploration: Unit Conversions

Essential Question: How are unit conversions related to dimensional analysis, and how do you use them?

What You Will Learn: You will learn how to convert between different units of measurement. You will also learn how to use dimensional analysis to convert between units of measurement.

1. Think and Write: How are unit conversions related to dimensional analysis, and how do you use them? (Write your answer on a separate sheet of paper.)

2. Think and Write: How are unit conversions related to dimensional analysis, and how do you use them? (Write your answer on a separate sheet of paper.)

Gizmo Warm-up: Use the gizmo to convert between different units of measurement. Make sure you understand the units and the conversion factors. (You can find the units and conversion factors in the gizmo.)

1. To begin, check the question in the gizmo. Do you understand the question? Do you think you can answer it? If not, what do you need to know? Write your answer in the space provided.

A. What is the question? _____

B. What do I need to know? _____

2. Use the gizmo to convert between different units of measurement. Make sure you understand the units and the conversion factors. (You can find the units and conversion factors in the gizmo.)

A. According to the gizmo, how many meters are in a kilometer? _____

B. How many centimeters are in a meter? _____

Gizmos

Name: Date:

Student Exploration: Mineral Identification

Essential Question: How are mineral identification and classification related to the properties of the mineral?

What You Will Learn: You will learn how to identify minerals based on their properties. You will also learn how to classify minerals based on their properties.

1. Think and Write: How are mineral identification and classification related to the properties of the mineral? (Write your answer on a separate sheet of paper.)

2. Think and Write: How are mineral identification and classification related to the properties of the mineral? (Write your answer on a separate sheet of paper.)

Gizmo Warm-up: Determining Density

1. Mass is the amount of substance in an object. (Write the mass of the mineral in grams.) grams

2. Volume is the amount of space an object takes up. (The volume is the amount of space the mineral takes up.) (Write the volume of the mineral in milliliters.) mL

3. Density is a measure of how light or heavy an object is for its size. To find the density of an object, divide the mass by the volume. (Calculate the density.) (Write the density of the mineral.) g/mL

Activity A: Acids and bases

Get the Gizmo ready:

- Click **Reset**. Select **1.0 M HNO₃** for the Burette and **Mystery NaOH** for the Flask.
- Select **Phenolphthalein** for the Indicator.
- You will need a scientific calculator for this activity.

Introduction: When most acids dissolve in water, they **dissociate** into ions. For example, nitric acid (HNO₃) dissociates into H⁺ and NO₃⁻ ions.

Question: How do acids and bases interact in solution?

1. Calculate: Concentration is measured by **molarity** (M), or moles per liter. Brackets are also used to symbolize molarity. For example, if 0.6 moles of HNO₃ are dissolved in a liter of water, you would say [HNO₃] = 0.6 M.

A. Because HNO₃ is a **strong acid**, it dissociates almost completely in water. That means the concentration of H⁺ is very nearly equal to that of HNO₃.

What is [H⁺] if [HNO₃] is 0.01 M? _____

B. The pH of a solution is equal to the negative log of H⁺ concentration: pH = -log[H⁺].

What is the pH of this solution? (Use the "log" button on your calculator.) _____

C. What is the pH of a 0.6 M HNO₃ solution? _____

2. Describe: The equation for the reaction of nitric acid (HNO₃) and sodium hydroxide (NaOH) is shown on the bottom right of the Gizmo.

A. What are the reactants in this reaction? _____

B. What are the products of this reaction? _____

3. Measure: A **titration** can be used to determine the concentration of an acid or base by measuring the amount of a solution with a known concentration, called the **titrant**, which reacts completely with a solution of unknown concentration, called the **analyte**. The point at which this occurs is called the **equivalence point**.

Carefully add HNO₃ into the flask until the phenolphthalein begins to lose its color. Stop adding HNO₃ when the color change is permanent.

A. How much (HNO₃) was required to cause the indicator to change color? _____

B. What can you say about the pH before and after the last drop of HNO₃ was added? _____

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