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Smith
Physical Science

Name _____

Elements, Compounds & Mixtures Worksheet

Part 1: Read the following information on the classification of matter. Fill in the blanks where necessary.

Elements:

- An element is a pure substance made of only one type of _____.
- An element has the same composition throughout, which is called _____.
- An element _____ be separated into simpler materials by physical means.
- Over 100 existing elements are listed and classified on the _____.

Compounds:

- Compounds are pure substances made of more than one type of _____ and are _____.
- A compound has the same composition throughout, which is called _____.
- Compounds _____ be separated into simpler materials by physical means. Separating a compound requires a chemical reaction.
- The properties of a compound are usually _____ than the properties of the elements it contains.

Mixtures:

- Mixtures are a combination of two or more _____ and/or _____ that _____ be separated by physical means.
- Mixtures are NOT chemically combined
- Mixtures can be uniform, called _____, and are known as solutions.
- Mixtures can also vary in composition, which is called _____.
- The properties of a mixture are _____ to the properties of its components.

Part 2: Classify each of the following as elements (E), compounds (C) or Mixtures (M). Write the letter X if the example is not matter.

- | | | |
|-------------------------------|---|--------------------|
| ___Diamond (C) | ___Sugar (C ₆ H ₁₂ O ₆) | ___Milk |
| ___Air | ___Sulfuric Acid (H ₂ SO ₄) | ___Gasoline |
| ___Krypton (K) | ___Bismuth (Bi) | ___Uranium (U) |
| ___Water (H ₂ O) | ___Alcohol (CH ₃ OH) | ___Pail of Garbage |
| ___Ammonia (NH ₃) | ___Salt (NaCl) | ___Energy |
| ___Wood | ___Bronze | ___Ink |
| ___Dry Ice (CO ₂) | ___Baking Soda (NaHCO ₃) | ___Titanium (Ti) |
| ___Iron (Fe) | ___Popcorn | ___Gold (Au) |
| ___Electricity | ___A dog | ___Concrete |

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A mixture is the combination of two or more substances that can be separated later, like sand and water. A solution is when a substance dissolves in a liquid, like ...

WORKSHEET-36 ... (a) The colour of the mixture has become dark brown (b) A brisk effervescence is taking place in the beaker (c) The outer surface of the Worksheet. 2. ... stability of liposomes in a cryoprotectant-containing solution by crystallization of ... boiling liquid nitrogen or, alternatively, an acetone/dry ice mixture. ... liquid nitrogen or an acetone/dry ice mixture and kept there for 5–10 min.

mixture solution worksheet

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Mixtures and Solutions Vocabulary. 1. Mixture- a combination of two or more substances. 2. Ingredients- the separate parts of a mixture. 3. Physical change- Compound Mixture: When two or more simple mixtures are mixed together to form another mixture, it is known as a compound mixture. Alligation: Alligation is Mixtures, Science Activities, worksheets & Games, examples of heterogeneous mixtures, ... kinds of mixtures, solid - solid, solid - liquid etc, solutes, solvents, solutions and mixtures. ... Mixtures in real life, identify entities that are mixtures or not.

mixture and solution worksheets 5th grade

This solution is made by dissolving (a) iodine in potassium iodide (b) iodine in ... oxide, Ink (a) Classify the substances as homogenous and heterogeneous mixture. ... (True or False) (1) (c) How can we say that sugar is a pure substance These free worksheets explore the differences between elements, compounds, and mixtures. ... Mixtures can be either homogenous or heterogeneous. ... In a solution, one substance (the solute) dissolves completely into another (the solvent). Mixtures, such as the atmosphere, contain two or more substances that are relatively ... Read PDF Mixtures And Solutions Worksheets Answers and install the Mixture- a combination of two or more substances. 2. ... 4th Grade Mixtures Worksheets Mixtures and Solutions Fifth Grade Emilie Petry Madison Cszmadia SPE Mixture A mixture is made when two or more substances are combined, but they are not combined chemically. · Types of Mixtures · Solutions (homogeneous) · What ...

solution mixture problems worksheet

Copies of attached worksheets "Comparing and Contrasting Mixtures and Solutions" and Venn diagram. • Overhead projector or Interactive Whiteboard ... combinations of two or more pure substances, or different particles. Mixtures ... From Science Workshop Series: Chemistry Mixtures and Solutions by Seymour ... Mar 9, 2021 — Separation of a Mixture : Alabama Learning Exchange website - Students explore mixtures, recognize that a mixture is created when two or more ... Displaying top 8 worksheets found for - Matter And Its Properties Answer Key. ... 4. homogeneous mixture - a combination of two or more substances that have ... a compound, a solution (homogenous mixture, or a heterogeneous mixture.. Lesson guide, worksheet and experiments to introduce mixtures and solutions. Classify the following as an element, a compound, a solution, or a heterogeneous mixture: aluminum raisin bread carbon dioxide water sugar and water sulfur. 167bd3b6fa

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