

A chemical reaction is a transformation of a chemical reaction in which the number of atoms of each element is conserved.

A coefficient represents the number of atoms of a particular element in a chemical reaction. A coefficient is placed directly in front of a chemical formula.

A subscript is placed after the element symbol to indicate the number of atoms of that element in a chemical formula.

Why is it important to balance chemical equations?

Chemical reactions are balanced to show that the number of atoms of each element is the same on both sides of the equation.

What does the law of conservation of mass state?

The law of conservation of mass states that the total mass of the reactants is equal to the total mass of the products.

Week 8, Day 2

The number of protons in an atom cannot change (it is fixed) but a different number of neutrons can change.

The most stable atomic configuration has a nucleus with a balanced number of protons and neutrons.

How does a positive ion form from a neutral atom? What is another name for a positive ion?

When an atom loses one or more electrons, it has more protons than it does electrons, so it is no longer neutral. This atom has a positive charge and is called a positive ion or cation.

How does a negative ion form from a neutral atom? What is another name for a negative ion?

When an atom gains one or more electrons, it has more electrons than it does protons, so it is no longer neutral. This atom has a negative charge and is called a negative ion or anion.



Atoms in Group 1A have 1 electron in their outer shell and Group 2A atoms have 2 electrons in their outer shell. To become more stable (like the noble gases), the outermost electrons are easily given up (they become positively charged). For example, Group 1A atoms lose 1 electron to become stable and easily bonded. They become the most reactive elements in the periodic table.



Atoms are formed by taking the first part of the element name and adding the suffix -ide. For example, sodium chloride, NaCl, is called a sodium chloride.



When positive and negative ions meet, the positive ions give up the electrons, becoming a cation (positively charged ions) and the negative ions become an anion (negatively charged ions).

The positively charged cation and the negatively charged anion are attracted to each other. The total force between the oppositely charged ions, holding the two ions together.

Physical Science Exploring Space Notetaking Guide Answer

Victor M. Corman



Physical Science Exploring Space Notetaking Guide Answer:

Decoding **Physical Science Exploring Space Notetaking Guide Answer**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Physical Science Exploring Space Notetaking Guide Answer**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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