

Skills Worksheet

Concept Review Chapter 5: Section 1

Section: Simple Ions

Complete each statement below by choosing a term from the following list. Terms may be used more than once.

- | | | | |
|----|----|-------|--------|
| 10 | 11 | ion | octet |
| 12 | 13 | anion | cation |

1. An atom or group of atoms that has a positive or negative electric charge because it has lost or gained electrons is a(n) ion.
2. The sodium ion has 11 protons, 12 neutrons, and 10 electrons.
3. In most chemical reactions, atoms tend to match the outer electron configuration of the noble gases. This is called the octet rule.

Complete each statement below by writing the correct term or phrase.

4. An anion is an ion with a negative charge.
5. Valence electrons occupy the outermost energy level of an atom.
6. The chloride ion and the chlorine atom have different electron configurations.
7. A cation is an ion with a positive charge.
8. Many stable ions have an electron configuration of a noble gas.

Answer the following questions in the space provided.

9. How do the outer-shell electron configurations for ions of Group 1, Group 2, and Group 15, Group 16, and Group 17 elements compare with those of the noble gases?
They are the same. Group 1 + 2 ions have noble gas configuration of previous row. Group 15, 16 + 17 ions have noble gas configuration in their row.

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Whispering the Secrets of Language: An Mental Quest through **Holt Chemistry Concept Review Answers Chap 11**

In a digitally-driven world where displays reign supreme and quick connection drowns out the subtleties of language, the profound secrets and psychological nuances hidden within phrases frequently move unheard. Yet, set within the pages of **Holt Chemistry Concept Review Answers Chap 11** a captivating fictional treasure sporting with organic thoughts, lies a fantastic journey waiting to be undertaken. Penned by a skilled wordsmith, this charming opus attracts viewers on an introspective journey, lightly unraveling the veiled truths and profound affect resonating within the cloth of each and every word. Within the emotional depths of this touching evaluation, we shall embark upon a sincere exploration of the book is core styles, dissect their fascinating writing fashion, and succumb to the powerful resonance it evokes strong within the recesses of readers hearts.

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