

# 7 Ionic and Metallic Bonding

## **Big idea** BONDING AND INTERACTIONS

### 7.1 Ions

For students using the Foundation edition, assign problems 1, 3–5, 7–12, 14, 15, 18–20.

**Essential Understanding** Ions form when atoms gain or lose valence electrons, becoming electrically charged.

#### Lesson Summary

**Valence Electrons** Valence electrons are the electrons in the outermost occupied energy level and are involved in ion formation.

- ▶ For a representative element, the group number equals the number of valence electrons the atom contains.
- ▶ An electron dot structure shows the symbol of the element and its valence electrons.
- ▶ Atoms tend to gain or lose the number of electrons that will provide the atom with a noble gas electron configuration.

**Formation of Cations** Cations are positively charged ions formed when an atom loses one or more valence electrons.

- ▶ Atoms and the cations formed from them have different properties.
- ▶ Elements in Group 1 form cations with a charge of  $1+$ , and those in Group 2 form cations with a charge of  $2+$ .
- ▶ Many transition metals form more than one cation and do not follow the octet rule.

**Formation of Anions** Anions are negatively charged ions formed when an atom gains one or more valence electrons.

- ▶ Commonly, the name of an anion ends in *-ide*.
- ▶ Anions form from nonmetallic elements.
- ▶ The anions formed from halogens are known as halides.

After reading Lesson 7.1, answer the following questions.

#### Valence Electrons

1. What are valence electrons?

*Valence electrons are the electrons in the highest occupied energy level of an element's atoms.*

2. The valence electrons largely determine the *chemical properties* of an element and are usually the only electrons used in *chemical bonds*.

# Lesson 7 1 Reading And Study Workbook Answers

**Peipei Pang**



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**Complete Key for Schools Workbook with Answers with Audio CD** Sue Elliott, Emma Heyderman, 2013-01-17 Complete Key for Schools is official preparation for the Cambridge English Key KET for Schools exam It combines the very best in contemporary classroom practice with engaging topics aimed at younger students The information practice and advice contained in the course ensure that they are fully prepared for all parts of the test with strategies and skills to maximise their score This Workbook without answers includes 14 topic based units for homework which cover reading writing and listening skills It provides further practice in the grammar and vocabulary taught in the Student's Book The Audio CD contains all the listening material for the Workbook A Workbook without answers is also available

**Maximum SAT** Peter Edwards, 2005-02 A NEW VERSION OF MAXIMUM SAT IS AVAILABLE This is the old version Please search for the new version or go to <http://www.lulu.com/MaximumSAT>

Ready Or Not Study Guide, TPT

*The Book of Mark* Brian Simmons, 2023-01-03 The book of Mark is an explosive account of Jesus' miraculous life Mark highlights the many miracles of Jesus illustrating the beautiful union of divine power and overwhelming mercy as he healed taught and saved the lost This gospel reveals the Suffering Servant and transforms us into his fervent followers This 12 lesson study guide on the book of Mark provides a unique and welcoming opportunity to immerse yourself in God's precious Word as expressed in The Passion Translation Begin your journey with a thorough introduction that details the authorship of Mark date of composition first recipients setting purpose central message and key themes Each lesson then walks you through a portion from the book and includes features such as notable verses historical and cultural background information definitions of words and language cross references to other books of the Bible maps and character portraits of figures from the Bible and church history Enrich your biblical understanding of the book of Mark experience God's love for you and share his heart with others

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