

The forces that hold matter together are called chemical bonds. There are four major types of bonds. We need to learn in detail about these bonds and how they influence the properties of matter. The four major types of bonds are:

- | | |
|--------------------|---|
| I. Ionic Bonds | III. Metallic Bonds |
| II. Covalent Bonds | IV. Intermolecular (van der Waals) forces |

Ionic Bonds

The ionic bond is formed by the attraction between oppositely charged ions. Ionic bonds are formed between metals and nonmetals. Remember that metal atoms lose one or more valence electrons in order to achieve a stable electron arrangement. When a metal atom loses electrons it forms a positive ion or **cation**. When nonmetals react they gain one or more electrons to reach a stable electron arrangement. When a nonmetal atom gains one or more electrons it forms a negative ion or **anion**. The metal cations donate electrons to the nonmetal anions so they stick together in an ionic compound. This means that ionic bonds are formed by the complete transfer of one or more electrons.

A structure with its particles arranged in a regular repeating pattern is called a **crystal**. Because opposite charges attract and like charges repel, the ions in an ionic compound stack up in a regular repeating pattern called a crystal lattice. The positive ions are pushed away from other positive ions and attracted to negative ions so this produces a regular arrangement of particles where each ion is surrounded by ions of the opposite charge. Each ion in the crystal has a strong electrical attraction to its oppositely charged neighbors so the whole crystal holds together as one giant unit. We have no individual molecules in ionic compounds, just the regular stacking of positive and negative ions.

1. Define the following terms:

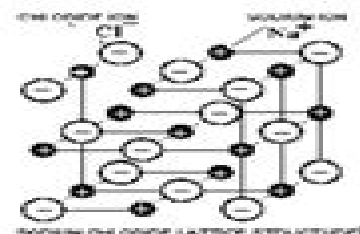
a) ionic bond –

b) cation –

c) anion –

d) crystal –

2. What are the smallest units of an ionic bond?



At room temperature ionic compounds are high melting point solids. They are usually white except for compounds of the transition metals that may be colored. They are brittle (break easily). They do not conduct electricity as solids, but do conduct electricity when melted or dissolved in water.

3. List several properties of ionic compounds:

4. When can electricity be conducted in an ionic bond?

Answer To 1vocabulary Packet

Karin Nielsen-Saines



Answer To 1vocabulary Packet:

, Cambridge Global English Stage 4 Teacher's Resource Nicola Mabbott, Claire Medwell, Jane Boylan, 2014-06-19
Cambridge Global English is a nine stage language rich course for learners of English as a Second Language following the Cambridge International Examinations curriculum framework Teacher s Resource 4 provides step by step guidance notes for teachers for each lesson in every unit to support teaching the content of Learner s Book 4 Notes on Activity Book 4 are also included A unit overview provides a snapshot of lesson objectives and the language and skills covered The notes include answer keys to activities in the Learner s Book and Activity Book complete audio scripts suggestions for differentiation and assessment cross curricular links portfolio opportunities and additional unit linked photocopiable activities and unit based wordlists Recycling Teacher's Resource Guide CD Saddleback Educational Publishing, 2010-09-01 Designed to work with both differentiated levels of Think Green these 24 page guides were developed in consultation with several state educational standards and contain multiple components Three lesson plans are included These lesson plans are divided into sections vocabulary preview reading the text discussing the meaning word work extending the meaning and critiquing The teacher s guide also includes 11 worksheets 2 vocabulary 1 writing 1 index 2 review and 5 activity sheets *Resources in Education* ,2000 Go Organic Teacher's Resource Guide CD Saddleback Educational Publishing, 2010-09-01 Designed to work with both differentiated levels of Think Green these 24 page guides were developed in consultation with several state educational standards and contain multiple components Three lesson plans are included These lesson plans are divided into sections vocabulary preview reading the text discussing the meaning word work extending the meaning and critiquing The teacher s guide also includes 11 worksheets 2 vocabulary 1 writing 1 index 2 review and 5 activity sheets *Teaching English with Corpora* Vander Viana, 2022-10-26 Teaching English with Corpora is an accessible and practical introduction to the ways in which online and offline corpora can be used in English language teaching ELT Featuring 70 chapters written by an international range of researchers and practitioners this book provides readers with clear tested examples of corpus based driven lesson plans contains activities relevant to English for general purposes and English for specific purposes caters for the needs of English language teachers working with learners at different proficiency levels features flexible teaching suggestions that can be explored as part of a lesson or as a full lesson This book is an essential purchase for pre and in service English language teachers as well as those studying corpus linguistics in undergraduate Master s courses in applied linguistics ELT and Teaching English to Speakers of Other Languages TESOL **Alternative Fuels Teacher's Resource Guide CD** Saddleback Educational Publishing, 2010-09-01 Designed to work with both differentiated levels of Think Green these 24 page guides were developed in consultation with several state educational standards and contain multiple components Three lesson plans are included These lesson plans are divided into sections vocabulary preview reading the text discussing the meaning word work extending the meaning and critiquing The teacher s guide also includes 11 worksheets 2

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