

3. Atoms elements and compounds



Atomic mass = 23

Proton number = 11

Neutron number = 12 (23 - 11)

mass of electron = $\frac{1}{1836}$

ISOTOPE: atoms of the same element with the same proton number but a different neutron number

- Have the same properties due to the same number of electrons on the outer shell

Radioisotope

- testing for leaks in pipes
- treating cancer

IONIC BONDING

Bonding: oppositely charged ions are strongly attracted by electrostatic force + involves electron transfer

metal + non metal

- metals give electrons to non-metals

Properties: strong bonds due to attractive forces

- conduct electricity
- high mp/bp
- charged particles
- soluble in water

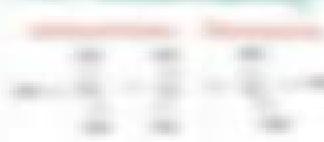
Macromolecular compounds

SILICON (IV) OXIDE

Properties



Covalent bonding



... the strong nature of covalent bonding means ...

A large box containing a list of properties and examples for different types of bonding, including ionic, covalent, and metallic bonding.

Igcse Complete Chemistry Notes

Arshad Iqbal



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Chemistry Notes N Elkhadragy,2020-10-14 Chemistry notes for IGCSE O level Complete details for concepts listed in the most recent syllabus **Cambridge IGCSE English as a Second Language Coursebook with Audio CD** Peter Lucantoni,2014-07-24 Cambridge IGCSE English as a Second Language Fourth edition matches the requirements of the revised University of Cambridge International Examinations 0510 and 0511 syllabus The series is written by an experienced IGCSE teacher and trainer and is endorsed by Cambridge International Examinations Together with the Workbook sold separately this Coursebook is an exam preparation course offering clear practical support for students The units utilise a diverse range of topical stimulus material to enliven the subject They also include imaginative activities and exam tips designed to build confidence and develop the skills needed to succeed Audio CD is included for listening activities

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KIRBLY,2016-07-30 This is a complete StudyBook of chemistry prepared as per the latest Cambridge IGCSE Syllabus Cambridge International AS and A Level Chemistry encourages learners to explore their subject in depth It has been written in consultation with many experienced teachers and Subject Matter Experts SMEs to help the learners develop not only the subject knowledge but also to gain a strong understanding of some of the key concepts that are critical to mastering the subject **TeacherNi ICSE Predictive Question Papers 2015 | Std.X: 6 Subjects (Compulsory + Comp App)**

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and revisions to the national curriculum Written by experienced practitioners this popular textbook comprehensively covers the opportunities and challenges of teaching science in the secondary school It provides guidance on the knowledge and skills you need and understanding the science department at your school development of the science curriculum the nature of science and how science works biology chemistry physics and astronomy earth science planning for progression using schemes of work to support planning and evaluating lessons language in science practical work using ICT science for citizenship Sex and Health Education and learning outside the classroom assessment for learning and external assessment and examinations Every unit includes a clear chapter introduction learning objectives further reading lists of useful resources and specially designed tasks including those to support Masters Level work as well as cross referencing to essential advice in the core text Learning to Teach in the Secondary School sixth edition Learning to Teach Science in the Secondary School is designed to support student teachers through the transition from graduate scientist to practising science teacher while achieving the highest level of personal and professional development

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