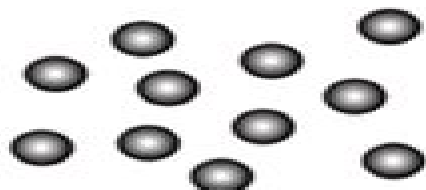


Five Bonding Structures

Single Atoms

(monatomic elements)

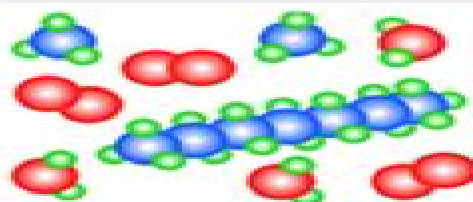
Very rare - only the *Noble Gases* exist as single atoms



He Ne Ar Kr Xe

Covalent Molecular

(non-metal elements & compounds)



Small - H_2 , O_2 , N_2 etc
 HCl , H_2O , NH_3 , CH_4



Medium - $C_6H_{12}O_6$
 $C_{80}H_{144}$, C_{60}

Large - starch
polythene etc

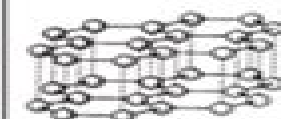
Covalent Network

(non-metal elements & compounds)

Only 3 examples



the element
carbon
(diamond)



the element
carbon
(graphite)

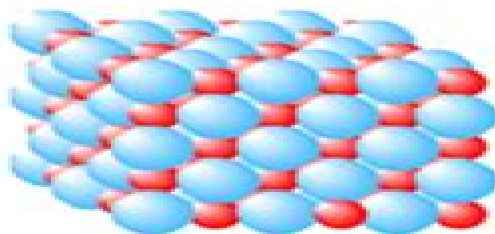


the compound
 SiO_2

Ionic Network

(metal/non-metal compound)

All metal/non-metal
compounds

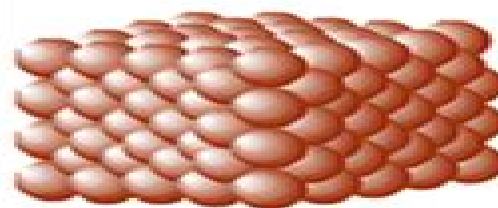


$Na^+ Cl^-$
 $Mg^{2+} O^{2-}$
 $Cu^{2+} (NO_3^-)_2$

Metallic Network

(metal elements & alloys)

All metals elements
& metal alloys



Cu Na
Mg Fe
brass

Bonding And Molecular Structure Worksheet

Katrin Zwirgmaier



Bonding And Molecular Structure Worksheet:

General Chemistry Workbook Daniel C. Tofan, 2010-07-28 This workbook is a comprehensive collection of solved exercises and problems typical to AP introductory and general chemistry courses as well as blank worksheets containing further practice problems and questions It contains a total of 197 learning objectives grouped in 28 lessons and covering the vast majority of the types of problems that a student will encounter in a typical one year chemistry course It also contains a fully solved 50 question practice test which gives students a good idea of what they might expect on an actual final exam covering the entire material

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helps you approach each question with clarity confidence and the precision needed to score high in the 2026 ICSE board exam

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Films and Other Materials for Projection Library of Congress,1968

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