



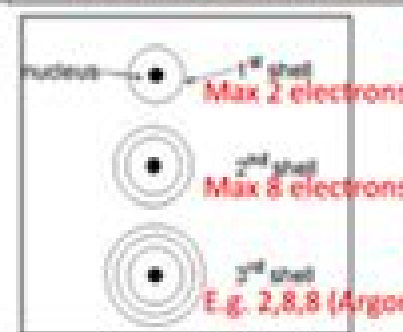
Periodic Table of the Elements

An atom:  
Number of Protons = Number of Electrons  
Mass number = Protons + Neutrons

# C2 Chemistry

Periodic table arranges elements by  
**ATOMIC NUMBER** (proton number/the small one)

The number of outer shell electrons match the group the element is found in.  
E.g. Lithium 2,1 is a group 1 element.

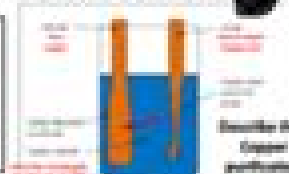


Protons and neutrons both have a mass of 1

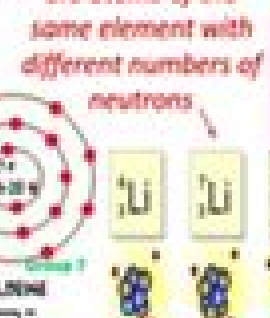
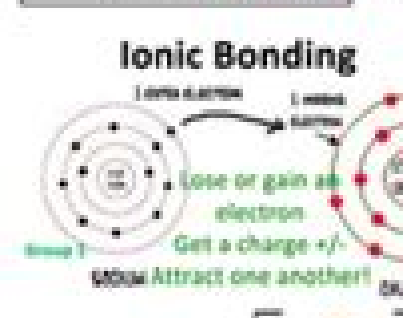
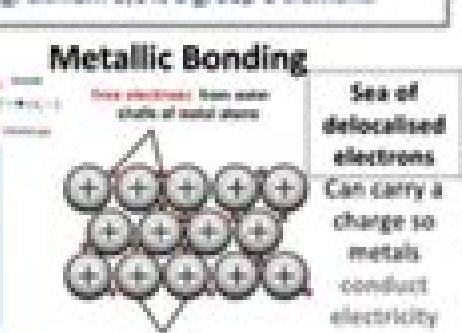
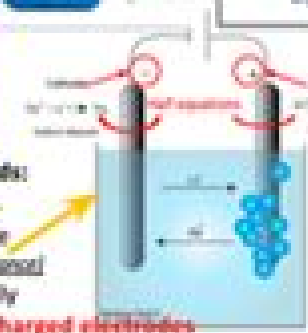
**ISOTOPES**  
are atoms of the same element with different numbers of neutrons

**OIL RIG**

Oxidation is loss (of electrons)  
Reduction is gain (of electrons)



**Electrolysis:**  
Splitting up a substance using electricity



When there are 2 possible products  
The less reactive forms at the electrode

Electrolysis of Brine

Used for: Disinfectants, Bleach and plastics

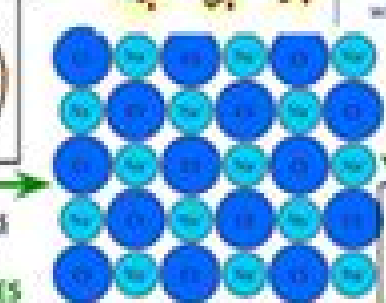
Used for: Margarine and HCl

Used for: Bleach, paper and soap

Metal ions only arranged in layers  
**ELECTROSTATIC ATTRACTION**  
between  
**+IONS and ELECTRONS**

Metal ions slide over one another making them **MALLEABLE**

Metals conduct **HEAT** well



As a solid: High melting and Boiling Point  
Conducts electricity when melted or dissolved:  
Ions move freely and carry a charge

**NANO-TECHNOLOGY**  
Means **REALLY REALLY REALLY** small!!!!

# Gcse Additional Chemistry C2 Revision Booklet

**Adrian Schmit, Jeremy Pollard**



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web in this lecture we are going to learn about optical fiber communication a block diagram of optical fiber communication systems types and modes of optical fiber and the advantages and applications of optical fiber communication so let s start with the basic knowledge of what is communication and then we will learn about the optical fiber

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web for creating long haul communication link it is necessary to join one fiber to other fibers permanently for this purpose optical splicing techniques are used to join different fibers optical coupler beam splitter

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web block diagram of optics fiber communicating system fiber optic communication link is the transmission of information by the amplification of the optical signal with optical fibers over a required distance this involves an optical signal out an electrically signal at the transmission end and change by the optical signal return to an

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web draw the block diagram of an optical fibre communication system and explain function of each block advertisement solution the optical fiber consists of three main elements 1 transmitter an electric signal is applied to the optical transmitter the optical transmitter consists of driver circuit light source and fiber flylead

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web general block diagram of optical communication system consists of following important blocks transmitter information channel receiver block diagram of ofc systems message origin generally message origin is from a transducer that converts a nonelectrical message into an electrical signal

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web context 1 described circuit has been developed for use in 40 gb s tdm fiber optic links a block diagram of such a link is shown in fig 1 the time division multiplexer collects

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web optical components that require no electronic control for their operation 1 optical filter select only a narrow spectrum of desired light 2 optical splitters divide the power in an optical signal into a number of different branches

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web write the block diagram which shows main components in an optical fiber communication link explain briefly write the expression for channel capacity what is wdm explain briefly draw the attenuation curve with respect to wavelength and show the three main windows of optical fiber communication and their wavelengths

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web optical fiber construction characteristics modes block diagram uses home electronics communication system optical fiber the transmission media used for the communication of signals from one point to another are copper wires coaxial cables wave guides and radio links all these media have their own advantages and

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web sep 28 2019 optical fiber communication system block diagram by sreejith hrishikesan september 28 2019 1 general light wave system communication systems that use high carrier frequencies in the near ir region of visible spectrum are called optical communication systems or general light wave systems



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web basic elements of a fiber optic communication system for gigabits and beyond gigabits transmission of data fiber optic communication is the ideal choice this type of communication is used to transmit voice video telemetry and data over long distances and local area networks or computer networks a fiber optic communication system