

AP Chemistry Final Study Guide

Unit 1: Atomic Structure and Properties (7%-9%)

- At STP, one mole of gas always occupies 22.4 L
- **Mass Spectroscopy:**
 - Atoms have different isotopes (carbon-12, carbon-14, etc) and this will affect the average atomic mass
 - The most abundant isotope will have the greatest effect
- **Coulomb's Law:**
 - The greater the charge of the nucleus, the more energy is required to ionize an electron
 - The closer an electron is to the nucleus, the more energy is required to ionize an electron
- **Electromagnetic Radiation:**
 - When atoms absorb energy, electrons jump to higher energy levels
 - When electrons drop from higher to lower energy levels, atoms give off electromagnetic radiation energy
- **Kinetic Energy of Ionized Electrons:**
 - The faster an ejected electron is going, the more kinetic energy it has
 - Electrons originally further away from the nucleus require less energy to eject, so it will have more kinetic energy
- **Electron Configuration:**
 - When entering the d-block (transition metals), the energy level drops by 1 unless you are using shorthand notation
 - Nickel: $1s^2 2s^2 2p^6 3s^2 3p^6 3d^8 4s^2$ (notice the d-block)
 - Nickel (with shorthand): $[\text{Ar}]4s^2 3d^8$
- **Law of Definite Proportions:**
 - A pure chemical compound broken down into elements always contains elements of a fixed ratio, independent of where and how it was created
- **Law of Multiple Proportions:**
 - When elements form compounds, the proportions of the elements in those chemical compounds can be expressed in small whole number ratios
- **Aufbau Principle:**
 - When building up the electron configuration of an atom, electrons are placed in orbitals, subshells, and shells in order of increasing energy

Chemistry Unit Study Guide

**Barron's Educational Series, Mark
Kernion, Joseph A. Mascetta**

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PSI Study Guide for Organic Chemistry by Douglas C. Neckers, Michael P. Doyle E. C. Blossey, 1977 Ccea as Chemistry Student Unit Guide Alyn McFarland, 2012 Written by a senior examiner Alyn G McFarland this CCEA AS Chemistry Student Unit Guide is the essential study companion for Unit 1 Basic Concepts in Physical and Inorganic Chemistry This full colour book includes all you need to know to prepare for your unit exam aaaa clear guidance on the content of the unit with topic summaries knowledge check questions and a quick reference index aaaa examiner's advice throughout so you will know what to expect in the exam and will be able to demonstrate the skills required aaaa exam style questions with graded student responses so you can see clearly what is required to get a better grade

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alice s adventures under ground review brilliant in every - Aug 05 2022

web feb 5 2020 when alice s adventures under ground received its european premiere at the barbican three years ago it seemed more likely to find a permanent home in the concert hall rather than the opera

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web alice s adventures under ground is a 2016 one act opera by gerald barry to his own libretto based on lewis carroll s 1865 children s book alice s adventures in wonderland the original manuscript of which had the title of alice s adventures under ground and its 1871 sequel alice through the looking glass

alice s adventures underground alice in wonderland wiki - Jun 03 2022

web alice s adventures underground is the original manuscript that would eventually be published as alice s adventures in wonderland lewis carroll hand wrote illustrated and bound this copy himself and later gave it as a gift to alice liddell and her two sisters lorina and edith the manuscript was sold at sotheby s on april 3

alice s adventures under ground lewis carroll archive org - Mar 12 2023

web english wsboeken pdf in 1856 the oxford mathematician charles dodgson befriended the new dean of christ church college henry liddell and his wife and particularly the three children alice lorina and edith he took the girls on picnics and told them stories dodgson was also a celebrated victorian photographer who had his own studio in oxford

alice s adventures under ground alice in wonderland net - Apr 13 2023

web alice s adventures under ground after lewis carroll told the alice in wonderland story to the real alice she asked him to write it down for her below you ll find this original story which he later revised for publication and became

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web alice s adventures under ground alice s adventures under ground may refer to alice s adventures in wonderland an 1865 book by lewis carroll titled in manuscript alice s adventures under ground alice s adventures under ground opera a 2016 opera by gerald barry