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Basic Chemistry Concepts Part I - Basic Chemistry Concepts Part I by ThePenguinProf 1,581,466 views 11 years ago 18 minutes - Chemistry, for General Biology students. This video covers the

nature of matter, elements, atomic structure and what those sneaky ...

Intro

Elements

Atoms

Atomic Numbers

Electrons

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find molarity

find the molar mass of copper chloride

calculate the molarity

General Chemistry 2 Review Study Guide - IB, AP, & College Chem Final Exam - General Chemistry 2 Review Study Guide - IB, AP, & College Chem Final Exam by The Organic Chemistry Tutor 696,914 views 7 years ago 2 hours, 24 minutes - This general **chemistry**, 2 final exam review video tutorial contains many examples and practice problems in the form of a multiple ...

General Chemistry 2 Review

The average rate of appearance of $[NH_3]$ is 0.215 M/s . Determine the average rate of disappearance of $[H_2]$.

Which of the statements shown below is correct given the following rate law expression

Use the following experimental data to determine the rate law expression and the rate constant for the following chemical equation

Which of the following will give a straight line plot in the graph of $\ln[A]$ versus time?

Which of the following units of the rate constant K correspond to a first order reaction?

The initial concentration of a reactant is 0.453 M for a zero order reaction. Calculate the final concentration of the reactant after 64.4 seconds if the rate constant is 0.00137 Ms .

The initial concentration of a reactant is 0.738 M for a zero order reaction. The rate constant is 0.0352 M/min . Calculate the time it takes for the final concentration of the reactant to decrease to 0.255 M .

Calculate the rate constant K for a second order reaction if the half life is 243 seconds. The initial concentration of the reactant is 0.325 M .

Which of the following particles is equivalent to an electron?

Identify the missing element.

The half-life of Cs-137 is 30.0 years. Calculate the rate constant K for the first order decomposition of isotope Cs-137.

The half life of Iodine-131 is about 8.03 days. How long will it take for a 200.0g sample to decay to 25g?

Which of the following shows the correct equilibrium expression for the reaction shown below?

Calculate K_p for the following reaction at 298K. $K_c = 2.41 \times 10^{-2}$.

Use the information below to calculate the missing equilibrium constant K_c of the net reaction

Aqueous Solutions, Dissolving, and Solvation - Aqueous Solutions, Dissolving, and Solvation by Tyler DeWitt 127,355 views 2 years ago 14 minutes, 7 seconds - We talk about dissolving aqueous **solutions**, where water is the solvent. We'll look at the process of solvation, which is what ...

Aqueous Solutions and Solvation How things dissolve in water to make aqueous solutions • Atomic view of how water molecules dissolve solute • Different for covalent and ionic solutes

Aqueous Solutions Aqueous solution: water is the solvent

Sugar: Covalent Solute

Models of Sugar Molecule

Water: Solvent

Sugar Cube Zoom-In

Molecules Don't Break Apart

The Cube Dissolves

Hydration Shells Clusters of water molecules surrounding solute

Ionic Solutes

Dissociation

Dissolving: Covalent vs. Ionic Covalent solutes stay molecules Ionic solutes dissociate into ions

Water Molecules and Ions

Water Is Polar

Partial Charges Attracted to Ions

Aqueous State Symbol (aq) State Symbols tell us the state of a chemical

Aqueous Solutions & Solvation

Solvation and Hydration Shells Solvated: solute surrounded by solvent molecules Hydrated a solute surrounded by water molecules

Middle Finger 8,806,812 views 8 months ago 37 seconds – play Short - Ignore Tags.. #youtube_shorts #shorts #middle #middlefinger #facts.

Intro to Chemistry, Basic Concepts - Periodic Table, Elements, Metric System & Unit Conversion - Intro to Chemistry, Basic Concepts - Periodic Table, Elements, Metric System & Unit Conversion by The Organic Chemistry Tutor 4,343,357 views 7 years ago 3 hours, 1 minute - This online **chemistry**, video tutorial provides a basic overview / introduction of common concepts taught in high school regular, ...

The Periodic Table

Alkaline Metals

Alkaline Earth Metals

Groups

Transition Metals

Group 13

Group 5a

Group 16

Halogens

Noble Gases

Diatomic Elements

Bonds Covalent Bonds and Ionic Bonds

Ionic Bonds

Mini Quiz

Lithium Chloride

Atomic Structure

Mass Number

Centripetal Force

Examples

Negatively Charged Ion

Calculate the Electrons

Types of Isotopes of Carbon

The Average Atomic Mass by Using a Weighted Average

Average Atomic Mass

Boron

Quiz on the Properties of the Elements in the Periodic Table

Elements Does Not Conduct Electricity

Carbon

Helium

Sodium Chloride

Argon

Types of Mixtures

Homogeneous Mixtures and Heterogeneous Mixtures

Air

Unit Conversion

Convert 75 Millimeters into Centimeters

Convert from Kilometers to Miles

Convert 5000 Cubic Millimeters into Cubic Centimeters

Convert 25 Feet per Second into Kilometers per Hour

The Metric System

Write the Conversion Factor

Conversion Factor for Millimeters Centimeters and Nanometers

Convert 380 Micrometers into Centimeters

Significant Figures

Trailing Zeros

Scientific Notation

Round a Number to the Appropriate Number of Significant Figures

Rules of Addition and Subtraction

Name Compounds

Nomenclature of Molecular Compounds

Peroxide

Naming Compounds

Ionic Compounds That Contain Polyatomic Ions

Roman Numeral System

Aluminum Nitride

Aluminum Sulfate

Sodium Phosphate

Nomenclature of Acids

H₂SO₄

H₂S

HClO₄

HCl

Carbonic Acid

Hydrobromic Acid

Iodic Acid

Iodic Acid

Moles What Is a Mole

Molar Mass

Mass Percent

Mass Percent of an Element

Mass Percent of Carbon

Converting Grams into Moles

Grams to Moles

Convert from Moles to Grams

Convert from Grams to Atoms

Convert Grams to Moles

Moles to Atoms

Combustion Reactions

Balance a Reaction

Redox Reactions

Redox Reaction

Combination Reaction

Oxidation States

Metals

Decomposition Reactions

IUPAC Nomenclature of Organic Chemistry - IUPAC Nomenclature of Organic Chemistry by Manocha

Academy 4,048,399 views 4 years ago 33 minutes - IUPAC Nomenclature of Organic Compounds.

Let's learn IUPAC Naming of Organic Compounds such as alkanes, alkenes, ...

find the longest continuous carbon chain

do look for the longest carbon continuous carbon chain

need to find the longest continuous carbon chain

need to specify the positions of the methyl groups

number the longest continuous carbon chain so we have four carbons

give the position of the double bond

giving the position of the double bond

need to specify the position of triple bonds

look at the longest carbon chain

aldehydes

count all the carbons in our longest carbon chain

add a chlorine

shift the double bond

Organic Chemistry Synthesis Reactions - Examples and Practice Problems - Retrosynthesis -

Organic Chemistry Synthesis Reactions - Examples and Practice Problems - Retrosynthesis by The

Organic Chemistry Tutor 368,911 views 7 years ago 51 minutes - This organic **chemistry**, video

tutorial focuses on multistep synthesis reactions and retrosynthesis problems. It contains plenty of ...

add two carbons

using a grignard reagent

create a carbon-carbon bond

protonate the alkoxide
add a grignard reagent to an aldehyde or ketone
attack the carbonyl carbon
convert the acid chloride into a ketone
convert it into the aldehyde
starting with the acid chloride
find the right reagents
use a phenyl magnesium bromide
add two different R groups
use the grignard reagent
making the organolithium reagent
draw two lithium atoms each with one valence electron
form an ionic bond
react it with copper chloride
add lithium to one of these alkyl halides
convert this alkyl halide into an organolithium reagent
add a copper chloride
add the other alkyl halide
adding copper chloride
react it with the other alkyl halide
combine two alkyl halides
expel the bromine
replace or substituted a bromine atom with a methyl group
replace the bromine atom with a methyl group
replace the most substituted hydrogen with a bromine atom
add sodium hydroxide
convert it into a carboxylic acid
convert it into an acid chloride
add an alcohol
add ammonia to this aldehyde
reduce the amine with cyano borohydride so sodium cyano borohydride
put the bromine atom on the less substituted carbon-reaction
attack the carbon from the back expelling the bromine
put two bromine atoms across the double bond
convert a ketone into an alkene
replace a secondary hydrogen with a bromine atom
add a CH₂ with palladium catalyst
add a bromine atom
expel the bromine atom

Insane 16 Hr study Routine >#iitjee #neet #gate #isro #upsc - Insane 16 Hr study Routine >#iitjee #neet #gate #isro #upsc by Torq4712 30,426,407 views 2 years ago 59 seconds – play Short - There are a lot of people giving random suggestions in this world which sounds very logical. Their random suggestion will only ...

01 Introduction to AP Chemistry - 11th Edition of Chemistry by Raymond Chang & Kenneth A. Goldsby - 01 Introduction to AP Chemistry - 11th Edition of Chemistry by Raymond Chang & Kenneth A. Goldsby by Na & Ar 435 views 3 years ago 3 minutes - Quick and easy to understand intro to AP **Chemistry**, and the big ideas surrounding it.

General Chemistry 1 Review Study Guide - IB, AP, & College Chem Final Exam - General Chemistry 1 Review Study Guide - IB, AP, & College Chem Final Exam by The Organic Chemistry Tutor 2,769,641 views 7 years ago 2 hours, 19 minutes - This video tutorial study guide review is for students who are taking their first semester of college general **chemistry**, IB, or AP ...

Intro

How many protons

Naming rules

Percent composition

Nitrogen gas

Oxidation State

Stp

Example

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