

CHEMISTRY

SELF TUTORING - ONLINE VIDEO HELP

FREE

Brightstorm Chemistry: <http://www.brightstorm.com/science/chemistry/>

Free online Chemistry video lessons to help students understand critical Chemistry concepts so that they can improve test and quiz scores and more easily complete homework assignments

Khan Academy Chemistry: <http://www.khanacademy.org/>

Videos on chemistry (roughly covering a first-year high school or college course).

Chemistry by Randy Cook: <http://itunes.apple.com/itunes-u/chemistry/id394010605>

These general chemistry learning resources include the study of acids and bases, atomic structure, chemical bonds, and chemical reactions.

The World of Chemistry: <http://www.learner.org/resources/series61.html#>

A video instructional series for college and high school classrooms and adult learners; 26 half-hour video programs and coordinated books

Chemistry Comes Alive: <http://itunes.apple.com/us/itunes-u/chemistry-comes-alive-videos/id391599380>

This collection of chemistry videos from the Journal of Chemical Education depicts chemical reactions and techniques. The Chemical Education Digital Library (ChemEd DL) is the destination for digital content intended for chemical science education.

The Cassiopeia Project. Chemistry:

http://www.cassiopeiaproject.com/vid_courses3.php?Tape_Name=Chemistry

High definition science education videos. If you can visualize it, than understanding is not far behind.

Introductory MIT Chemistry courses: <http://ocw.mit.edu/high-school/introductory-mit-courses/chemistry/>

Courses: *Principles of Chemical Science; Kitchen Chemistry; Introduction to Solid-State Chemistry; Chemistry Laboratory Techniques: Organic Chemistry I.*

Reactions in Chemistry: <http://www.learner.org/resources/series168.html>

A video workshop for high school teachers; 8 one-hour video programs, workshop guide, and Web site; graduate credit available

Yale Freshman Organic Chemistry I: <http://oyc.yale.edu/chemistry/chem-125a>
<http://itunes.apple.com/us/itunes-u/organic-chemistry-video/id341651370>

Intro into Organic Chemistry:

<http://www.youtube.com/watch?v=BuIW2otK854&feature=related>

<http://www.youtube.com/watch?v=B-yAM2jV7UU&feature=related>

AT A COST

Math Tutor DVD: www.mathtutorDVD.com

Algebra Help thru Calculus, Physics, Chemistry, and More!

The Chemistry 1 Tutor: Volume 1 - 3 DVDs - 10 Hour Course:

<http://www.mathtutordvd.com/products/item71.cfm>

Covers: *Introduction to Chemistry; Units and Unit Conversions; Significant Figures in Calculations; Temperature; Density; Atomic Theory of Matter; Atomic Number, Mass Number, and Isotopes; Atomic Mass of an Element; Overview of the Periodic Table; Naming Molecular Compounds; Ions and Ionic Charge; Ionic Compounds; Ionic Compounds with Polyatomic Ions; Hydrate Compounds.*

The Chemistry 1 Tutor: Volume 2 -- 8 Hour Course:

<http://www.mathtutordvd.com/products/item81.cfm>

Covers: *Molecular Mass and Formula Mass; Avogadro's Number and the Mole; Percent Mass and Empirical Formulas; Writing and Balancing Chemical Reactions; Reaction Stoichiometry; Limiting Reactants; Percent Yield in Chemical Reactions; Molar Concentration of Solutions; Dilution of Solutions; Solutions in Chemical Reactions.*

The Chemistry 1 Tutor: Volume 3 -- 7 Hour Course:

<http://www.mathtutordvd.com/products/item88.cfm>

Covers: *Electrical Properties of Aqueous Solutions; Calculating Ion Concentrations in Solutions; Strong and Weak Acids; Acid-Base Reactions and Net Ionic Equations; Acid-Base Titrations; Solubility of Ionic Compounds; Precipitation Reactions and Net Ionic Equations.*

The Unit Conversion Tutor -- 4 Hour Course:

<http://www.mathtutordvd.com/products/item54.cfm>

Covers: *Scientific Notation; The Metric System and SI Units; Unit Conversions Involving Length; Unit Conversions Involving Area; Unit Conversions Involving Volume; Unit Conversions Involving Speed; Unit Conversions Involving Mass and Weight; Unit Conversions Involving Density.*

The Great Courses: www.thegreatcourses.com

Designed to meet the powerful demand for lifelong learning, The Great Courses is an intellectual engaging series of video and audio courses led by the world's best professors and experts in diverse fields such as philosophy, history, literature, science, and the arts. The Great Courses currently maintains a catalog of more than 350 courses delivered by great teachers from the Ivy League, Stanford, Georgetown, and other leading colleges and universities.

Chemistry, 2nd Edition: http://www.thegreatcourses.com/tgc/courses/course_detail.aspx?cid=1012

Taught by Professor Frank Cardulla, M.S., University of Illinois, Niles North High School

*In **Chemistry, 2nd Edition**, Professor Cardulla offers 36 carefully designed lectures that provide a solid foundation for future success by giving students a deep and thorough understanding of the fundamental concepts and problem-solving skills needed in the study of chemistry. He has created the perfect course for students who are struggling in their high school chemistry class, for students who simply want to perform better, or for home-schooled students. Even those long out of high school have reaped the benefits of Professor Cardulla's lectures—thousands of our adult customers have purchased and enjoyed the first edition of this course, finding it a useful tool for gaining a better understanding of chemistry.*