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CHEMISTRY ONLINE RESOURCES

The Chemistry Corner

<http://www.crpc.rice.edu/CRPC/GT/vlkawin/index.html>

This Web site is designed as a resource for High School Chemistry

students and teachers.

Web Tutorials

<http://users.ev1.net/~vklawinski/tutorial.html>

Interactive tutorials for various topics typically covered in a high school. A number of them have an audio accompaniment.

Periodic Table on the WWW

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<http://www.webelements.com>

Web elements aims to be a high quality source of information on the WWW about the Periodic Table with coverage such that all from students at school to professional scientists will find something useful

4. Computer Assisted Learning (CAL) in Chemistry for 14-18 year old

<http://members.aol.com/ChangChem/indexmaster.htm>

Table of isotopes

<http://chemlab.pc.maricopa.edu/periodic/isotopes.html>

Printable Periodic Table

<http://chemlab.pc.maricopa.edu/periodic/printable.gif>

Chem Web Online

<http://library.thinkquest.org/10429/low/index1.htm>

Introduction to Chemistry

ChemTutor

<http://www.chemtutor.com>

Basic chemistry help is available here for high school or college students. Chemtutor begins with the fundamentals and gives expert help with the most difficult phases of understanding your first course in chemistry.

Chemistry lessons

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<http://www.ndchemistry.org/>

JavaScript Periodic Table

<http://expert.cc.purdue.edu/~helvey/javapert.html>

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http://www.chemistrycoach.com/periodic_tables.htm

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Peace and security, Economic and Social Development, Human Rights, International Law, Humanitarian Affairs

PTA Bank<http://www.ptabank.co.ke/>**International Monetary Fund (IMF)**<http://www.imf.org>

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Online English Grammar

<http://www.edunet.com/english/grammar/>

Go to the main table of contents for adjectives, adverbs, nouns, pronouns, verbs etc

Free Online English Lessons

<http://www.churchillhouse.com/english/index.html>

Online Dictionaries

<http://www.yourdictionary.com>

English Exercises Online

<http://www.smic.be/smic5022/>

Study Guides and Strategies

<http://www.iss.stthomas.edu/studyguides/>

Preparing to learn; Participating in the Classroom; Studying; Testing Skills; Writing Skills; Reading Skills; Other Learning and Studying Skills and Resources.

Activities of New teachers

<http://www.cris.com/~faben1/section5.shtml>

Building a Networking Infrastructure for Education

http://spider.lawrenceville.org/faculty_staff/bfreitas/www/NAIS98/index.htm

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Chinua Achebe WWW Links

<http://www.cocc.edu/cagatucci/classes/hum211/achebe1.htm>

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Webpage maintained by Cora Agatucci, Associate Prof. of English,
Humanities Department, Central Oregon Community College.

Audio Discussion of "Things Fall Apart " by Chinua Achebe

<http://www.npr.org/programs/totn/archives/ne6M30.html>

<http://www.educeth.ch/english/readinglist/achebec/index.html>

Literature Books Study Guide

http://www.wsu.edu:8000/~brians/guides_index.html

Grouped here are study guides prepared by Professor Paul Brians
of Washington State University for the use of students in his
classes.

Complete Works of Shakespeare

<http://tech-two.mit.edu/Shakespeare/>

Literature Books Study Guide

http://www.wsu.edu:8000/~brians/guides_index.html

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Weathering- Physical and Chemical

<http://uregina.ca/~sauchyn/geog221/wthrng.html>

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Volcanos

<http://vulcan.wr.usgs.gov/>

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Theoretical Geomorphology

<http://main.amu.edu.pl/~sgp/gw/gwteo.htm>

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Virtual Worlds and Field trips

<http://www.geog.le.ac.uk/cti/virt.html>

Update on Volcanic Activity

http://volcano.und.nodak.edu/vwdocs/current_volcs/current.html

Online Map Creation

<http://hum.amu.edu.pl/~zbzw/glob/make.htm>

The Nine Planets

<http://seds.lpl.arizona.edu/nineplanets/nineplanets/nineplanets.html>

A multimedia tour of the solar system. An overview of the history, mythology and current scientific knowledge of each of the planets and moons in our solar system

World Population

<http://www.un.org/popin/wdtrends>

Has figures for Africa for 1998, 2025, 2050. Also Annual growth rate, Crude birth rate, Crude death rate, Total fertility rate (per woman), Life expectancy at birth, Infant mortality rate, Mortality under age 5, Percentage of population under age 15 and age 60 or older, Population density (per sq km).

Online Resources about Uganda

http://www.sas.upenn.edu/African_Studies/Country_Specific/Uganda.html"

Photographs of different places

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<http://earth.jsc.nasa.gov/categories.html>

[Volcanos: Teaching and Learning](#)

<http://volcano.und.nodak.edu/learning.html>

Solar Sytem

<http://csep10.phys.utk.edu/astr161/lect/index.html>

Africa Internet Connectivity

<http://www3.sn.apc.org/africa/projects.htm>

Earth and Moon Viewer

<http://www.fourmilab.ch/earthview/vplanet.html>

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HISTORY ONLINE RESOURCES

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Encyclopa of the First World War

<http://www.spartacus.schoolnet.co.uk/FWW.htm>

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Slavery

<http://www.spartacus.schoolnet.co.uk/USAslavery.htm>

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History Research Online

<http://members.aol.com/historyresearch/>

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Hyper History Online

http://www.hyperhistory.com/online_n2/History_n2/a.html

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2,000 files covering 3,000 years of world history

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<http://www.mariner.org/age/menu.html>

World War Links

<http://killeenroos.com/link/war.htm#World War>

This is a very comprehensive list of World War I and II Web links. Resources are grouped alphabetically in topic areas, and the site includes information on the Holocaust, the world leaders of the time, and personal accounts of the war.

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MATHS ONLINE RESOURCES

Math Forum : Math Topics by Subject

<http://forum.swarthmore.edu/math.topics.html>

Interactive Lessons

<http://www.cne.gmu.edu/modules/dau/>

The DAU Tutorial Modules are interactive tutorials which give a comprehensive view of basic Mathematics, Probability, and Statistics, Available Tutorials: Math Refresher, Probability and Statistics Refresher

Webmath

<http://school.discovery.com/homeworkhelp/webmath/>

It offers math homework help and math word problems.

Math Help : Professor Freedman

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<http://www.mathpower.com>
Site has even background Music

Ask Dr. Math

<http://www.forum.swarthmore.edu/dr.math/dr-math.html>
Ask any Math question or check and see what questions other students have asked.

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Math

<http://www.webmath.com>
Simplifying expressions, factorising polynomials, solving equations, quadratic equations

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Maths in daily life

<http://www.learner.org/exhibits/dailymath/>

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Hotlists: Maths and computing

<http://sln.fi.edu/tfi/hotlists/math.html>

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Online Interactive Math Tutorials

<http://www.hofstra.edu/~matscw/RealWorld/tutindex.html>

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CLASS WEBSITE LISTS**COMMON APPLICATIONS****PAGE****Presentation****Software****Tutorial**[Introduction](#)[Background](#)[Text](#)[Slides](#)[Graphics](#)[Animations &](#)[Timings](#)**Examples**[Mitosis](#)[Digestive](#)[System](#)[Matrices](#)[Simple Cell](#)[Lightening](#)[Conductor](#)[Discharging](#)[Tube](#)**PHYSICS ONLINE RESOURCES****How to study Physics**<http://www.rel.ph.utexas.edu/~larry/how/how.html><http://www.ronkurtus.com/science.htm>**Standing Longitudinal Wave**<http://home.a-city.de/walter.fendt/physengl/stlwaves.htm>

Sound waves. Open-Open and Open- closed pipes. Simulations illustrating fundamental and ovetones

Waves<http://www.hazelwood.k12.mo.us/~grichert/sciweb/waves.htm/>**Virtual Laboratory Lessons for Education**http://ourworld.compuserve.com/homepages/b_whaley/

Are you missing proper lab equipment to teach concepts in physics/science/engineering?

Try these simulations that allow students to turn knobs, push buttons, and experiment as if they were doing the real thing!

Interference of circular waves

[Human Eye
Telecollaboration](#)

<http://home.a-city.de/walter.fendt/physengl/interference.htm>
This Java applet shows the interference of two circular respectively spherical waves (e.g. of water or sound waves).
The waves spread out from two sources oscillating with the same phase.

[Links](#)

Spreadsheets

Tutorial

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[Worksheets](#)

[Columns & Rows](#)

[Charts](#)

Image formation by a diverging lens

<http://www.phys.hawaii.edu/~teb/optics/java/dlens/index.html>

Image formation by a diverging mirror

<http://www.phys.hawaii.edu/~teb/optics/java/dmirr/index.html>

Image formation by a converging lens

<http://www.phys.hawaii.edu/~teb/optics/java/clens/index.html>

Examples

[Refraction of](#)

[Light](#)

[Solving](#)

[Polynomial](#)

[Equations](#)

[Workers'](#)

[Database](#)

[Base Converter](#)

Constructive and Destructive Interference

<http://www.colorado.edu/physics/2000/applets/fourier.html>

Young's Double Slit Experiment

<http://physicsstudio.indstate.edu/java/interference/interference.html>

Interference .Young,s double slit with Explanations

<http://members.tripod.com/~vsg/interfer.htm>

Beats

<http://plabpc.csustan.edu/general/tutorials/oscillations/beats.htm>

[Activities](#)

Wave Interference - Ripple Tank Experiment

[Links](#)

Databases Tutorial Introduction

<http://physicsstudio.indstate.edu/java/waves/index.html>

Example Periodic Table

Single Slit Diffraction

<http://physicsstudio.indstate.edu/java/physlets/java/slitdiffr/index.html>

The Cathode Ray Oscilloscope

<http://plabpc.csustan.edu/general/Tutorials/EM/Oscilloscope/Oscilloscope.htm>

Links

The Virtual Laboratory

<http://physicsweb.org/TIPTOP/VLAB/>

Word Processing Tutorial Introduction

Interference and diffraction

<http://www.pa.msu.edu/courses/1997spring/PHY232/lectures/interference/index.html>

Text Page Properties Printing Quit

Electrical Circuit

<http://www.article19.com/shockwave/oz.htm>

The OhmZone website allows students to build basic series, parallel, and combinations circuits on the computer screen. You wire the circuits, add switches, lamps, battery, resistors and meters on the computer screen. Basic current and voltage measurements can be made using this virtual laboratory.

A great teaching/learning resource for home or the class room. The program requires you to download the shockwave program, but it is worth the download time and it's FREE! The Shockwave Download Website is

<http://www.macromedia.com/shockwave/download/>

Examples Address list Time table Newsletter Repeat Patterns Logos

Optics Bench Applet

For the serious student attempting to learn the optics of mirrors and lenses a visit

[Practical Questions](#)

HTML Editors Tutorial

[Basic html](#)
[Netscape](#)
[Composer](#)

Examples

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[Teachers' Notes](#)
[Subject Website](#)
[Lists](#)
[Students Website](#)

Art

[Principles of Art](#)
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[Pastel Paintings](#)

to the Optics Bench Applet

<http://www.hazelwood.k12.mo.us/~grichert/optics/intro.htm>

is a must. It is one of my favorite interactive applets. A well designed and useful physics applet for science students. The original site can be found at http://webphysics.davidson.edu/alumni/MiLee/java/Final_Optics/optics.htm

Multimedia Physics Studios

<http://www.glenbrook.k12.il.us/gbssci/phys/mmedia/index.html>

The Multimedia Physics Studios consists of a collection of GIF animations and accompanying explanations of major physics concepts. The animations cover common physics principles discussed in a first-year high school physics course. The animation and discussion have been written specifically for high school physics students. While the animations provide a strong visual reinforcement of physics concepts, they are not interactive. Interactive Shockwave animations are currently under construction; an initial preview of such files can be found at the Shockwave Physics Studios. Related information and discussion of physics concepts can be found at this same site in The Physics Classroom.

The physics classroom

<http://www.glenbrook.k12.il.us/gbssci/phys/Class/BBoard.html>

Here's a comprehensive set of on-line high school physics tutorials consisting of units, lessons, and sublessons. Contents cover Kinematics, Newton's Laws, Vectors, Momentum, Work, Energy, Power, Circular Motion, Satellite Motion, Einstein's Theory of Special Relativity, Static Electricity, Current Electricity, Waves, Sound Waves, Music, Light Waves, Color, Reflection/Refraction, and the Ray Model of Light. Units contain problems for students to check their knowledge and animated GIFs to teach concepts.

[Book cover](#)
[Posters](#)

In addition to these tutorials, sets of resources that support teaching/learning the concepts

can be accessed directly by type, for example: GIF animations and QuickTime movies, problem sets, quizzes, student activities, lab sheets, and projects.

[Scanning an image](#)

Physics Lessons

<http://207.10.97.102/physicszone/lesson/default.htm>

Motion, Projectile motion, forces, torque, work & energy, momentum, electrostatics & electricity, magnetism, waves, light, sound, optics, complex simulations.

Blackbody Spectral curves

<http://jersey.uoregon.edu/vlab/PlankRadiationFormula/index.html>

<http://library.thinkquest.org/16468/lab/lab.htm>

The virtual Physics laboratory

<http://heppc19.phys.nwu.edu/~anderson/java/vpl/index.html>

The source code for the Java scripts are provided

NTNU Virtual Physics Laboratory

http://www.fed.cuhk.edu.hk/sci_lab/ntnujava/index.html

Nuclear Physics: Past, Present and Future

<http://library.thinkquest.org/3471>

MSU Java Mirror

<http://webphysics.ph.msstate.edu/javamirror/>

WebElements: Periodic Table of on the WWW for both students at school and Professional Scientists.

<http://www.webelements.com>

Physics 161 Online Access

<http://zebu.uoregon.edu/2000/phys102.html>

Plank's radiation law distribution

<http://csep10.phys.utk.edu/astr162/lect/light/planck.html>

Physics Online

<http://www.ac.wvu.edu/~vawter/PhysicsNet/Topics/TopicsMain.html>

Physlet Tutorials

http://WebPhysics.davidson.edu/Applets/script_tutorial/tutorialFrame.html

D.C Circuits

<http://www.physics.uoguelph.ca/tutorials/ohm/Q.ohm.html>

Electricity and magnetism

<http://scitec.uwichill.edu.bb/cmp/online/P10D/p10D.htm>

Interactive Physics and Math with Java

<http://www.lightlink.com/sergey/java/index.html>

How Internet Works

<http://www.beakman.com/interact/inter.html>

Online Tutorial : Learn Physics Today

<http://library.thinkquest.org/10796/>

Physics Lab

<http://www.futuresouth.com/~mhenders/physics/physics.html>

Introductory Physics notes

<http://theory.uwinnipeg.ca/physics/>

Dimensional Analysis

<http://www.physics.uoguelph.ca/tutorials/dimanaly/>

Ask Physics questions

<http://howthingswork.virginia.edu>

Interactive Physics

<http://ippex.pppl.gov/ippex/PhysicsModules.html>

The Physics Zone

<http://207.10.97.102/physicszone/lesson/default.htm>

Visual Physics

<http://library.thinkquest.org/10170/main.htm>

Atomic Structure Timeline

<http://www.watertown.k12.wi.us/hs/teachers/buescher/atomtime.html>

Physics Lab

<http://www.futuresouth.com/~mhenders/physics/physics.html>

Light and Optics

<http://www.hazelwood.k12.mo.us/~grichert/sciweb/optics.htm/>

Mechanics

<http://www.hazelwood.k12.mo.us/~grichert/sciweb/mechanic.htm/>

Electricity

<http://www.hazelwood.k12.mo.us/~grichert/sciweb/electric.htm/>

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