

Math & Science 7-12 TExES Resources

TExES Preparation Manual, Practice Test and Registration: <http://www.tx.nesinc.com>

Practice online Graphing calculator or Scientific Calculator: <http://cms.texas-ets.org/texas/acttutorial/>

Manual for the TExES Calculator: http://infinitysw.s3.amazonaws.com/ets/ets_calculator_manual.pdf

Open source materials from:

CK12.org & creative commons.org have free on-line high school & college textbooks

MIT free online courses High school & freshmen college level courses <http://ocw.mit.edu/>

ItunesU <http://www.apple.com/apps/itunes-u/?cid=wwa-us-kwg-features-com>

Khan Academy www.khanacademy.org/ Video lessons for math, physics, chemistry, biology, more

Brightstorm & Brightstorm2 on Youtube – hundreds of video lessons for mathematics and sciences

Open Learning Initiative at Carnegie Mellon University. <http://oli.cmu.edu/learn-with-oli/see-our-free-open-courses/> Logics and Proofs, Probability and Statistics, Statistical Reasoning, Stoichiometry, Introduction to Biology, Modern Biology, and Introduction to Chemistry

Other state teacher certification exams:

Praxis <http://www.teacherstestprep.com/> Reviews for Biology, Chemistry, Earth & Space Science, Mathematics

Praxis: <https://www.ets.org/praxis/prepare/materials/>

New York Regents Exams for Educators - released tests in Chemistry, Physics, Living Environment, Earth Sciences, Algebra, Geometry <http://www.nysedregents.org/>

Massachusetts Tests for Educator Licensure®

<http://www.mtel.nesinc.com/>

Florida Chemistry Teacher Certification:

<http://subjectareatestprep.pds-hrd.wikispaces.net/FTCE+Chemistry+6-12>

Lots of practice questions!

MATH

Statistics Review – Dr. Amy Wagler

<https://youtu.be/uXbIKH3Vh14?list=UUGzrxMF0RIPYmgRH3dPYeJw> or search YouTube for Wagler Statistics

SOS Mathematics www.sosmath.com/ Tutorials on algebra, geometry, calculus, differential equations, matrices, & complex variables

www.Mathpower4u.com

5000 mini-lessons organized by course and topic.

U of Houston On-line review for 4-8 Mathematics www.online.math.uh.edu/texas4to8/

Mathwords.com

Interactive math dictionary of math words, terms, formulas, pictures, diagrams, tables, and examples

StudyEdge -

http://tea.texas.gov/Academics/Instructional_Materials/Open-Source_Instructional_Materials/

Virtual Math Lab – College level

<https://www.wtamu.edu/academic/anns/mps/math/mathlab/>

SCIENCE

Flynn Scientific

<http://www.flinnsci.com/> Chemistry, Physics, Lab Safety <https://www.flinnprep.com> AP reviews Biology & Chemistry. Set up a free teacher account to view

The Physics Classroom www.physicsclassroom.com/ - interactive tutorial of basic high school physics concepts

UC Berkeley Understanding Evolution

<http://evolution.berkeley.edu/> on-line course with links to topics & resources

National Science Teachers Association

Safety in the Science Classroom & Physics

<http://www.nsta.org/safety/>

<http://www.sciencegeek.net/> - chem & bio

Bozeman Science

<http://www.bozemanscience.com/> - all sciences and statistics

Pretty Good Physics

<http://prettygoodphysics.wikispaces.com/PGP-Modern+Physics>

OpenStax -

http://tea.texas.gov/Academics/Instructional_Materials/Open-Source_Instructional_Materials/ Open-source instructional materials developed by Rice University for AP Physics & Biology

StudyEdge -

http://tea.texas.gov/Academics/Instructional_Materials/Open-Source_Instructional_Materials/ video lessons on biology and physics

Teacher Certification Exams

Preparation Process

