



Resources for NGSS

Framework:

[A Framework for K-12 Science Education – free download](#)

[REVISED – The NSTA Reader’s Guide to A Framework for K-12 Science Education](#)

[NSTA archived webinars for A Framework for K-12 Science Education and Next Generation Science Standards](#)

[Bozeman Science - videos](#)

Next Generation Science Standards:

[Standards online](#) – if possible work from this site as the PDF’s are not as up-to-date as the website:

[NGSS resources](#)

[National Science Teachers Association](#)

[Bozeman Science](#)

[Guide to Implementing the Next Generation Science Standards-final version](#)

[Community Resources for Science](#) this group is out of Berkley, CA they have some great resources

[Crosscutting symbols signs for printing](#)

Teaching Channel:

[NGSS: What’s a teacher to do?](#)

[Building Towards NGSS Classrooms](#)

[Video NGSS: Crosscutting Concepts](#)

[Video NGSS: Disciplinary Core Ideas](#)

[Video NGSS: Science and Engineering Practices](#)

[Video NGSS: A Vision for K-12 Education](#)

Assessment Examples

[Developing Assessments for the Next Generation Science Standards:](#)

[AAAS Science Assessment](#)

Below are not entirely aligned to NGSS but useful to get ideas of what test for NGSS will look like and helpful if you are revising site assessments:

[National Assessment of Educational Progress \(NAEP\)](#)

[Performance Assessments Links in Science](#)

[Connecticut State Department of Education – scroll down to Curriculum-Embed Performance Tasks and Assessment](#)

Lesson Ideas for NGSS:

[The Concord Consortium](#)

[RESA](#)

[NGSS Life Science](#)

Middle School: http://www.discoveryeducation.com/teachers/free-6-8-teacher-resources/index.cfm?campaign=footer_teacher_68

High School: http://www.discoveryeducation.com/teachers/free-9-12-teacher-resources/index.cfm?campaign=footer_teacher_912

Teacher Channel Blog: <https://www.teachingchannel.org/blog/ausl/author/aberg/>

Smithsonian Education: <http://smithsonianeducation.org/educators/index.html>

NASA Climate Kids 3-8th grades: <http://climatekids.nasa.gov/science-standards/>

NASA: <http://spaceplace.nasa.gov/science-standards/en/>

The Concord Consortium: <http://concord.org/ngss/?gclid=CM-4hP-ui74CFQpgfgod7jYAbw>

NGSS Life Science: <http://www.ngsslifescience.com/index.html>

CESA2 - many resources: <http://www.cesa2.org/programs/stem/scienceinstruction.cfm> (many other pages to look at also)

PBS – Engaging Science: <http://www.pbs.org/wgbh/nova/blogs/education/>

Serendip Studio – Alignment of biology activities of

NGSS: <http://serendip.brynmawr.edu/exchange/bioactivities/NGSS>

RESA Lesson Plans Exploring

NGSS: <http://www.resa.net/curriculum/curriculum/science/professionaldevelopment/ngss-pd/lesson-plans-exploring-ngss/>

NGSS Resources: <http://www.livebinders.com/play/play/451043#anchor>

Engineering:

[Engineering Go For It](#)

[CEISE, Stevens Institute of Technology](#)

[Teach Engineering](#)

[What is Engineering?](#)

STEM:

Engineering: Go For It: <http://www.egfi-k12.org/>

Siemens STEM Academy: <http://stem.discoveryeducation.com>

Navy STEM for the Classroom: <http://www.navystemfortheclasseoom.com/lesson-plans>

Test Tube: <http://testtube.com>

Popular Science: <http://www.popsci.com>

STEMWORKS Database: <http://changetheequation.org/improving-philanthropy/stemworks>

The NSTA Learning Center – this site has some great PD opportunities for teachers to learn content, Framework and Next Generation Science

Standards: <http://learningcenter.nsta.org/default.aspx>

PBL and Close Reading and Sources:

Curriculum and Instruction, K-12 Science, Kelly Cannon

Updated 10.16.15

National Center for Case Study Teaching in Science: <http://sciencecases.lib.buffalo.edu/cs/>
Boston Public Schools: <http://bpscurriculumandinstruction.weebly.com/science-close-reading-lessons.html>

Online Textbooks:

KQED – PBS station for Northern California has a new series of iBook's, currently they have middle school Earthquake and River Delta and high school Biotechnology and Energy is coming. You can download the iBook from Apple iBook's author and they have an accompanying iTunes U course. For more information go to: <http://www.kqed.org/community/mobile/ibook/>

Net Text offers some online text also: <http://www.net-texts.com/>
ck12.org – they have both student and teacher versions

KITS

Green Boxes from DRI: <http://www.dri.edu/greenpower-what-we-do/green-boxes>
GEMS: Great kits for K-8: <https://sites.google.com/site/nevadagemssite/>

Other Resources:

[Science News](#)

[Science News for Students](#)

Donors Choose – <http://www.donorschoose.org/>

HHMI (Howard Hughes Medical Institute) – <http://www.hhmi.org/>

California Learning Resources Network – www.clrn.org

Understanding Science – <http://undsci.berkeley.edu/>

MERLOT (Multimedia Educational Resource for Learning and Online Teaching):
<http://www.merlot.org/merlot/index.htm>