



Teaching Science in Florida

Understanding Next Generation Sunshine State Standards (NGSSS)

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FLORIDA DEPARTMENT OF
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fldoe.org

www.FLDOE.org

Objectives

Understand that Florida adopted the Next Generation Sunshine State Standards (NGSSS) for science in 2008 and the necessity for all lessons to be aligned to these standards.

Recognize the importance of accessing the course description and test item specifications when planning for instruction.



Science Standards

Standards

- Next Generation Sunshine State Standards (NGSSS)
- ~~Next Generation Science Standards (NGSS)~~
- Florida is NOT adopting new standards
- Currently in the adoption year (17-18) for science instruction materials aligned to NGSSS
- These materials will be used for the next five years

Next Generation Science Standards (NGSS)

- 18 states have adopted
- Florida is not an NGSS state
- Released to states in 2013
- Many STEM lessons and products are aligned to NGSS which means careful consideration of standards alignment is crucial when lesson planning
- When searching the internet for lessons great care must be taken for standards alignment to NGSSS
- CPALMS lessons are vetted carefully for alignment
www.CPALMS.org

Next Generation Sunshine State Standards (NGSSS)

- 2008 - State Board of Education approves New Next Generation Sunshine State Standards
- 2012 – CPALMS provides lessons and resources aligned to standards
- Statewide Science Assessment (SSA) Grades 5 and 8
- Biology End-of-Course Assessment (EOC)
- Test Item Specification documents
- Toolkits

NGSSS vs. NGSS

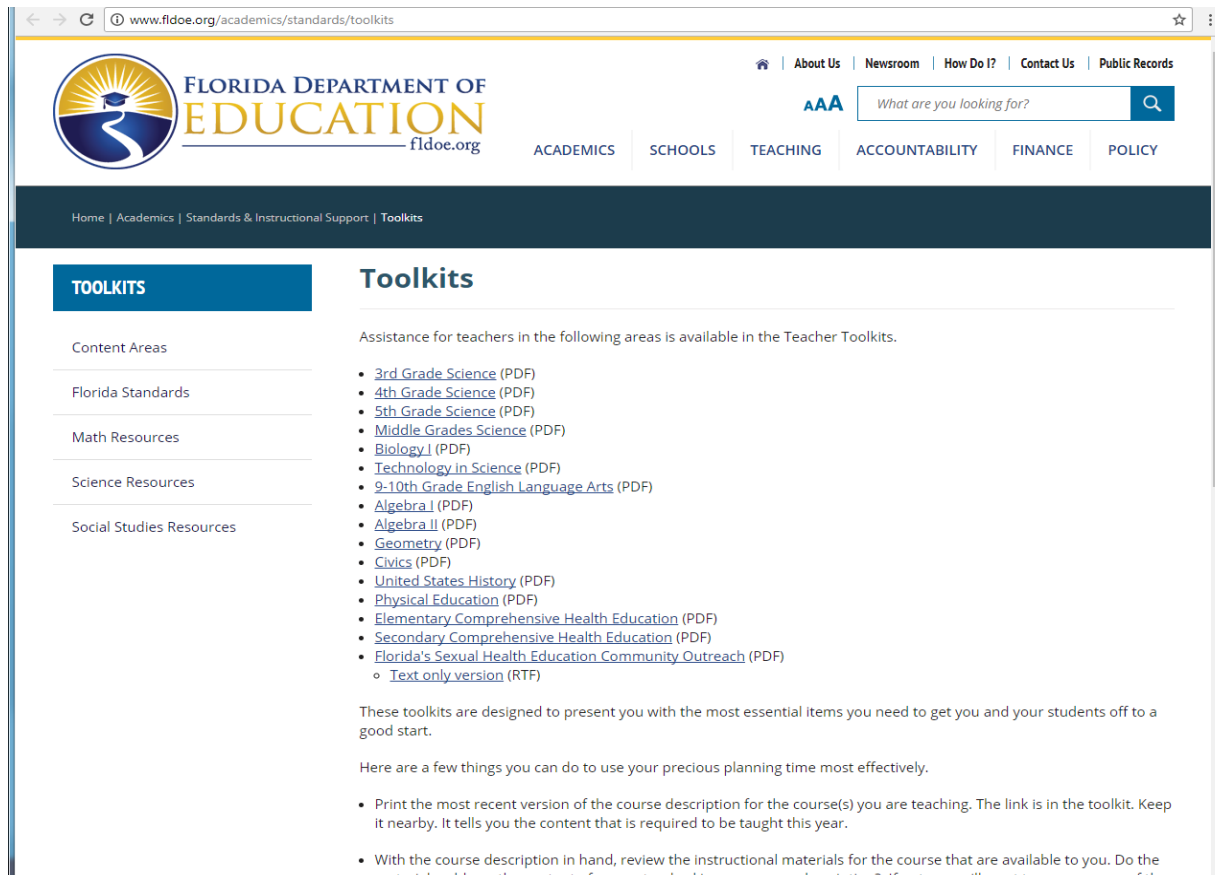
- NGSS covers fewer topics than NGSSS, but goes deeper into those topics
- NGSSS covers more topics than NGSS, but does not go as deep into each
- **No crosswalk between NGSS and our Florida Next Generation Sunshine State Standards (NGSSS) is possible**

Test Item Specifications

- Provides clarity as to how the NGSSS standards will be assessed
- Content clarifications and limits
- Grade 05 SSA
<http://www.fldoe.org/core/fileparse.php/5682/urlt/0077913-fl09g5sci.pdf>
- Grade 08 SSA
<http://www.fldoe.org/core/fileparse.php/5682/urlt/0077914-fl09g8sci.pdf>
- Biology EOC
<http://www.fldoe.org/core/fileparse.php/5662/urlt/0077547-biologyfl11sp.pdf>

Toolkits

<http://www.fldoe.org/academics/standards/toolkits/>



The screenshot shows the Florida Department of Education's Toolkits page. The header includes the department's logo, name, and website (fldoe.org), along with navigation links for About Us, Newsroom, How Do I?, Contact Us, and Public Records. A search bar is also present. Below the header, a dark blue navigation bar contains links for ACADEMICS, SCHOOLS, TEACHING, ACCOUNTABILITY, FINANCE, and POLICY. The main content area is titled "Toolkits" and features a sidebar with "Content Areas" including Florida Standards, Math Resources, Science Resources, and Social Studies Resources. The main text explains that the toolkits provide assistance for teachers in various areas, listing 18 specific resources such as 3rd Grade Science, 4th Grade Science, 5th Grade Science, Middle Grades Science, Biology I, Technology in Science, 9-10th Grade English Language Arts, Algebra I, Algebra II, Geometry, Civics, United States History, Physical Education, Elementary Comprehensive Health Education, Secondary Comprehensive Health Education, and Florida's Sexual Health Education Community Outreach. It also includes a section on how to use the toolkits effectively, advising teachers to print the most recent version of course descriptions and review instructional materials.

TOOLKITS

Content Areas

- Florida Standards
- Math Resources
- Science Resources
- Social Studies Resources

Toolkits

Assistance for teachers in the following areas is available in the Teacher Toolkits.

- [3rd Grade Science](#) (PDF)
- [4th Grade Science](#) (PDF)
- [5th Grade Science](#) (PDF)
- [Middle Grades Science](#) (PDF)
- [Biology I](#) (PDF)
- [Technology in Science](#) (PDF)
- [9-10th Grade English Language Arts](#) (PDF)
- [Algebra I](#) (PDF)
- [Algebra II](#) (PDF)
- [Geometry](#) (PDF)
- [Civics](#) (PDF)
- [United States History](#) (PDF)
- [Physical Education](#) (PDF)
- [Elementary Comprehensive Health Education](#) (PDF)
- [Secondary Comprehensive Health Education](#) (PDF)
- [Florida's Sexual Health Education Community Outreach](#) (PDF)
 - [Text only version](#) (RTF)

These toolkits are designed to present you with the most essential items you need to get you and your students off to a good start.

Here are a few things you can do to use your precious planning time most effectively.

- Print the most recent version of the course description for the course(s) you are teaching. The link is in the toolkit. Keep it nearby. It tells you the content that is required to be taught this year.
- With the course description in hand, review the instructional materials for the course that are available to you. Do the materials address the content of every standard in your course description? If not, you will want to source some of the



Course Descriptions

Course Descriptions

- Overview of course with related standards
- Supported by curriculum maps/pacing guides in districts
- Access course descriptions at www.CPALMS.org



Home | CPALMS.org

www.cpalms.org/Public/

CPALMS Where Educators Go For Bright Ideas

Not a member yet? SIGN UP | SIGN IN | HELP

COURSE Descriptions & Directory | RESOURCES Vetted by Peers & Experts | PD PROGRAMS Self-paced Training | ABOUT CPALMS Initiatives & Partnerships | ICPALMS Florida's Platform

Homepage | Login To ICPALMS (My Apps) | Social Media | Visit FLDOE | Florida Standards Assessments

Educator Toolkits

A toolkit of information, resources, and tools organized by grade level.

Grade K Educator Toolkit	Grade 1 Educator Toolkit	Grade 2 Educator Toolkit
Grade 3 Educator Toolkit	Grade 4 Educator Toolkit	Grade 5 Educator Toolkit
Grade 6 Educator Toolkit	Grade 7 Educator Toolkit	Grade 8 Educator Toolkit
Grades 9-12 Educator Toolkit		

FloridaStudents.org

A new CPALMS website with learning resources for students

New to CPALMS?

CPALMS is an online toolbox of information, vetted resources, and interactive tools that helps educators effectively implement teaching standards. It is the State of Florida's official source for standards information and course descriptions.



What does CPALMS offer?

An introductory video and tutorial

Watch Video

Some of our Resources

- [MFAS Mathematics Formative Assessment System](#) »
- [Lesson Plan Development Initiative](#) »
- [Original Student Tutorials](#) »
- [Model Eliciting Activities \(MEAs\)](#) »
- [Beyond Standards Math K-5 Videos](#) »

Some of our Tools

- [Interactive Curriculum Planner](#) »
- [Interactive Standards Visualizer](#) »
- [Lesson Study Support System](#) »
- [My Resources](#) »
- [Click here for more tools](#) »

Support

- [Online Tutorials](#) »
- [Contact Us](#) »

CPALMS for ...

- [Current & Future Teachers](#) »
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- [PD Staff](#) »
- [Teacher Preparation Programs](#) »

Biology 1

85 Course Standards

SC.912.E.7.1 Analyze the movement of matter and energy through the different biogeochemical cycles, including water and carbon.



Resources



Courses

SC.912.L.14.1 Describe the scientific theory of cells (cell theory) and relate the history of its discovery to the process of science.



Resources



Courses

SC.912.L.14.2 Relate structure to function for the components of plant and animal cells. Explain the role of cell membranes as a highly selective barrier (passive and active transport).



Resources



Courses

SC.912.L.14.26 Identify the major parts of the brain on diagrams or models.



Resources



Courses

SC.912.L.14.3 Compare and contrast the general structures of plant and animal cells. Compare and contrast the general structures of prokaryotic and eukaryotic cells.



Resources



Courses

Questions??

- Visit our website at
<http://www.fldoe.org/academics/standards/subject-areas/math-science/science/>
- Email PJ Duncan, Secondary Science Specialist
Patricia.Duncan@fldoe.org
- Email Alicia Foy, Elementary Science Specialist
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