

**Back to school for success in student achievement kit:**

**Grade 8 Science**

- 1. Teacher Resources –Essential tools for planning, teaching, and assessment– What resources should be at the teacher’s fingertips?**
  - a. Grade 8 Science Course Descriptions and Instructional Resources (CPALMS.org)**
    - i. Course Descriptions
      1. Comprehensive Science 3  
<http://www.cpalms.org/Public/PreviewCourse/Preview/13074>
      2. Comprehensive Science 3 Advanced  
<http://www.cpalms.org/Public/PreviewCourse/Preview/13071>
      3. Access Comprehensive 3  
<http://www.cpalms.org/Public/PreviewCourse/Preview/12890>
      4. Physical Science  
<http://www.cpalms.org/Public/PreviewCourse/Preview/13126>
      5. Physical Science Advanced  
<http://www.cpalms.org/Public/PreviewCourse/Preview/13127>
    - ii. Grade 8 Science Standards and Instructional Resources – Teacher, Student, Parent
      1. Comprehensive 3  
<http://www.cpalms.org/Public/PreviewCourse/Preview/13074>
      2. Comprehensive Science 3 Advanced  
<http://www.cpalms.org/Public/PreviewCourse/Preview/13071>
      3. Access Comprehensive 3  
<http://www.cpalms.org/Public/PreviewCourse/Preview/12890>
      4. Physical Science  
<http://www.cpalms.org/Public/PreviewCourse/Preview/13126>
      5. Physical Science Advanced  
<http://www.cpalms.org/Public/PreviewCourse/Preview/13127>
  - b. Grade 8 Science Text Books – Comprehensive 3 - State approved:**
    - i. Holt McDougal, Florida ScienceFusion, 2012/First
    - ii. Pearson Education, Inc., publishing as Prentice Hall, Florida Comprehensive Science, 2012/1
    - iii. School Education Group (SEG), a division of the McGraw-Hill Companies, Inc., Florida iScience Course 3, 2012/1
    - iv. Discovery Education Science: Middle School, Discovery Education, 2010/1<sup>st</sup>
  - c. Grade 8 Science Text Books – Comprehensive 3 - State approved:**
    - i. It's About Time, Herff Jones Education Division, Florida Interactions in Physical Science, Goldberg, et al., 2011/3<sup>rd</sup>
    - ii. It's About Time, Herff Jones Education Division, Florida Project-Based Inquiry Science Physical Science, Kolodner, et al., 2011/2<sup>nd</sup>
    - iii. School Education Group (SEG), a division of The McGraw-Hill Companies, Inc., Florida Physical iScience, Glencoe, 2012/1<sup>st</sup>

- iv. Pearson Education, Inc., publishing as Prentice Hall, Florida Interactive Physical Science, Print with Online Access, Padilla et al., 2012/1<sup>st</sup>
  - v. Discovery Education Science: Physical Science for Middle, Discovery Education, 2010/1
  - vi. Universal Design for Learning:  
<http://www.tlc-mtss.com/assets/udl-infographic.jpg>
- d. Course Maps and Sample Course Pacing Guides – District Samples**  
<http://www.fldoe.org/academics/standards/toolkits/sci-resources.stml>
- e. Selecting Accommodations: Guidance for Individual Educational Plan Teams:**  
<http://www.fldoe.org/core/fileparse.php/7690/urlt/0070064-selectingaccommodations.pdf>
- f. Grade 8 District Recommended Essential Labs**  
<http://www.fldoe.org/academics/standards/toolkits/sci-resources.stml>
- g. Laboratory Safety Information and Recommendations**  
<http://fldoe.org/academics/standards/subject-areas/math-science/science/safety-in-science.stml>
- h. Grade 8 Science FCAT 2.0 Assessment Assistance**
- i. Test Item Specifications  
<http://www.fldoe.org/core/fileparse.php/5682/urlt/0077914-fl09g8sci.pdf>
  - ii. Science FCAT 2.0 Sample Questions and Answer Key Books  
[http://www.fldoe.org/core/fileparse.php/3/urlt/fl538818\\_gr8\\_sci\\_stm\\_tb\\_wt\\_r1g.pdf](http://www.fldoe.org/core/fileparse.php/3/urlt/fl538818_gr8_sci_stm_tb_wt_r1g.pdf)
  - iii. Sample Answers for FCAT 2.0 Science Grade 8  
[http://www.fldoe.org/core/fileparse.php/3/urlt/fl538819\\_gr8\\_sci\\_stm\\_ak\\_wt\\_r1g.pdf](http://www.fldoe.org/core/fileparse.php/3/urlt/fl538819_gr8_sci_stm_ak_wt_r1g.pdf)
  - iv. Content Focus Report  
<http://fldoe.org/core/fileparse.php/5668/urlt/2015ScienceContentFocus.pdf>
  - v. Achievement Levels and Descriptions  
<http://www.fldoe.org/core/fileparse.php/3/urlt/sciencegrade8.pdf>
  - vi. Diagnostic and Assessment Development Tool – Item Bank Test Platform (IBTP)  
<https://portal.fldoesso.org/PORTAL/Application/Application-Access.aspx>
  - vii. Accommodations for Florida’s Statewide Student Assessments  
<http://www.fldoe.org/core/fileparse.php/7690/urlt/statewideassessmentaccommodations.pdf>

**2. Student Resources – Grade 8 Science Recommended Student Materials, Tools and Resources – What resources should be at the student’s fingertips?**

- a. Science Student Tutorials  
<http://www.floridastudents.org/#>
- b. Student Lab Safety Contract (see page 12 of the laboratory safety manual):  
<http://fldoe.org/core/fileparse.php/9958/urlt/2015-safety-in-science.pdf>
- c. **Student Supplies**  
<http://www.fldoe.org/academics/standards/toolkits/math-resources.stml>

**3. Classroom Resources and Recommendations – What should the classroom look like?**

- a. Recommended technology  
<http://www.fldoe.org/academics/standards/toolkits/sci-resources.stml>
- b. Recommended supplies, equipment & materials  
<http://www.fldoe.org/academics/standards/toolkits/sci-resources.stml>
- c. Assistive Technology and Universal Design for Learning Newsletter: <http://www.tlc-mtss.com/resources.html>

**4. Instructional Resources – What should instruction look like?**

- a. Classroom observation tools  
<http://www.fldoe.org/teaching/performance-evaluation/instructional.stml>
- b. Understanding the Value Added Model (VAM)  
<http://www.fldoe.org/about-us/division-of-educator-quality.stml>
- c. Science note taking and literacy support  
<http://www.fldoe.org/academics/standards/subject-areas/literacy/>
- d. Specific laws, guidelines, and recommended best practices in the lab (see page 37 in the laboratory safety manual): <http://fldoe.org/core/fileparse.php/9958/urlt/2015-safety-in-science.pdf>
- e. Grade 8 Science English Language Learners Assistance  
<http://www.cpalms.org/uploads/docs/standards/eld/SC.pdf>
- f. Myths and Truths for Educators regarding Florida’s Multi-Tiered System of Supports  
<http://www.florida-rti.org/educatorResources/myths/index.htm>
- g. Assistance with Reading Comprehension: a 2 page handout on reading supports for students who struggle with reading, including students with disabilities.

<http://www.tlc-mtss.com/assets/cd2014/data/ent-demonstraing-reading-comprehension.pdf>

- h.** Science Writer - great online tool to support students who struggle with writing, in writing science papers. <http://sciencewriter.cast.org>