

Glencoe Science



FLORIDA

Physical Science

with **Earth Science**



Pine Forrest in Hobe Sound, FL



Glencoe

New York, New York Columbus, Ohio Chicago, Illinois Peoria, Illinois Woodland Hills, California



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Florida Teacher Handbook

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Everglades



8-Step Process

The Florida Continuous Improvement Model: Implementing the 8-Step Instructional Process for *Florida Physical Science with Earth Science*

The Continuous Improvement Model provides a structure for improving student achievement. Its implementation in the science classroom can improve student mastery of the Sunshine State Standards and aid in student preparation for the FCAT.

The backbone of the Continuous Improvement Model is the 8-Step Process:



Disaggregate Data



Provide Tutorials for Non-Mastery Students



Develop Timeline and Instructional Focus Calendar



Provide Enrichments for Mastery Students



Deliver Focused Benchmark Lessons



Monitor Instructional Delivery

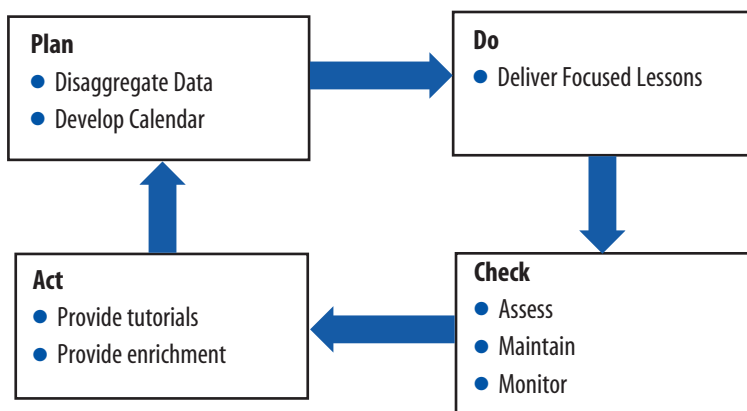


Administer Mini-Assessments of Benchmarks



Maintain Efficacy of the Process

The cyclical Plan-Do-Check-Act nature of the 8-Step Process provides continuous feedback and results data that can be used to determine the effectiveness of instruction and allow for modification as needed.



The following pages will describe how *Florida Physical Science with Earth Science* helps you work through each step.

8-Step Process



Disaggregate Data

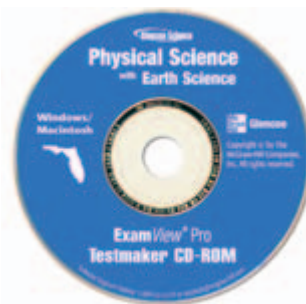
Analyze Results

The foundation of the Continuous Improvement Model is the determination of student strengths and weaknesses at the beginning of the school year. With this information, a plan will be formulated to address student needs.

In addition to data provided by your district or the state, *Florida Physical Science with Earth Science* offers these data collection tools:

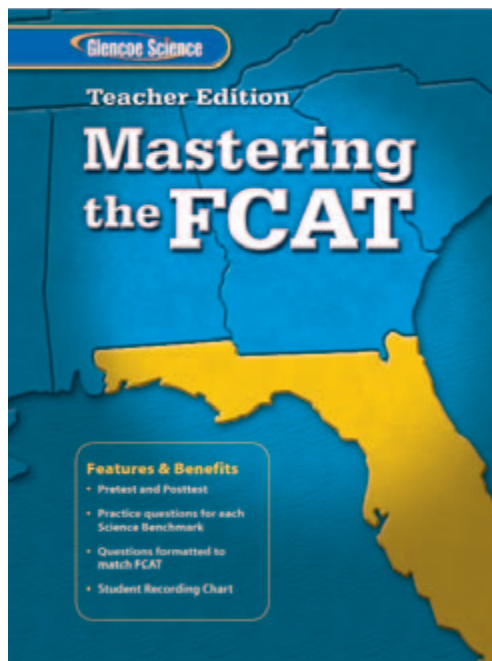
ExamView® Pro Testmaker CD-ROM

- Contains editable pretests for each chapter
- Allows you to build Benchmark-specific tests
- Provides disaggregated data by student or Benchmark when students test online



Succeeding on the FCAT CD-ROM

- Allows students to practice by Benchmark
- Generates data reports by Benchmark for the class and for individual students
- Allows the teacher to set a mastery threshold
- Generates NCLB data and reports



Mastering the FCAT

- Offers an additional pretest that can be taken with paper and pencil or edited and taken online through *ExamView® Pro*
- Contains a Student Tracking Chart to record student progress

8-Step Process

STEP 2 Develop Timeline and Instructional Focus Calendar

Make a Plan

Once student needs are determined, it's time to plan. Typically, a district or school time line will be developed based on this step. Once such an overall strategy is in place, you can plan your focused lesson instruction.

Pacing Guide

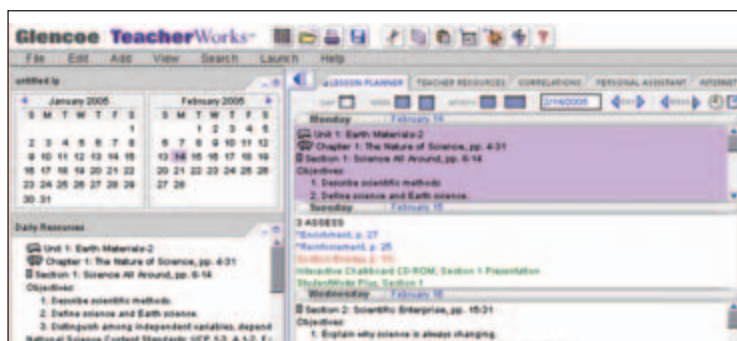
The Pacing Guide on pages FL29–FL41 is a sequence of single-session classes for teaching the *Student Edition* to cover all in-depth Benchmarks. This guide also includes scheduling for block classes. Both schedules allow time for review and practice.



The image shows a pacing guide for Chapter 13: Electricity. It is divided into two sections: a 45-minute period and a 90-minute period. The 45-minute period is spread over 9 days, and the 90-minute period is spread over 5 days. The content includes sections 13.1, 13.2, 13.3, 13.4, 13.5, 13.6, 13.7, 13.8, 13.9, 13.10, 13.11, 13.12, 13.13, 13.14, 13.15, 13.16, 13.17, 13.18, 13.19, 13.20, 13.21, 13.22, 13.23, 13.24, 13.25, 13.26, 13.27, 13.28, 13.29, 13.30, 13.31, 13.32, 13.33, 13.34, 13.35, 13.36, 13.37, 13.38, 13.39, 13.40, 13.41, 13.42, 13.43, 13.44, 13.45, 13.46, 13.47, 13.48, 13.49, 13.50, 13.51, 13.52, 13.53, 13.54, 13.55, 13.56, 13.57, 13.58, 13.59, 13.60, 13.61, 13.62, 13.63, 13.64, 13.65, 13.66, 13.67, 13.68, 13.69, 13.70, 13.71, 13.72, 13.73, 13.74, 13.75, 13.76, 13.77, 13.78, 13.79, 13.80, 13.81, 13.82, 13.83, 13.84, 13.85, 13.86, 13.87, 13.88, 13.89, 13.90, 13.91, 13.92, 13.93, 13.94, 13.95, 13.96, 13.97, 13.98, 13.99, 14.00.

TeacherWorks™ CD-ROM

- Lists Benchmarks for each chapter and section
- Contains Interactive Teacher Edition
- Provides editable *Florida Planning Guide for Continuous Improvement* with Benchmark correlations and a list of all teaching resources. Pick and choose what you need when you need it.
- Each lesson is available for three ability levels—L1, L2, and L3.



8-Step Process



Deliver Focused Benchmarks Lessons

Teach the Lesson

With your teaching plan developed, you are ready to focus on lessons that are structured around the Sunshine State Standards. Lessons should concentrate on covering required Benchmarks, some FCAT focus, and meeting students' needs.

Interactive Chalkboard™ CD-ROM

- Includes editable Microsoft® PowerPoint® presentations for each section of every chapter
- Contains animations with audio
- Provides an extensive image bank

Florida Physical Science with Earth Science Student Edition

- Lists all Benchmarks covered within each chapter and section
- Provides correlations to Benchmarks for assessment questions

Florida Physical Science with Earth Science Teacher Wraparound Edition

- Includes correlations to Sunshine State Standards, Mathematics
- Shows chapter components at a glance on the Chapter Organizer pages at the beginning of each chapter

chapter 13 Organizer			
Section/Objectives	National Standards	State/Local Standards	Lab/Features
Chapter Opener	See pp. 167-171 for a Key to Standards.		Launch Lab: Electric Circuits, p. 391 Foldables, p. 391
Section 1: Electric Charge 2 sections 1. Describe how electric charges exert forces on each other. 2. Compare the strengths of electric and gravitational forces. 3. Distinguish between conductors and insulators. 4. Explain how objects become electrically charged.	National Content Standards: UCRS, UCPS, UCRS.A.1.A.2, B.2.B.4	Florida Benchmarks: SC.C.3.A.2, SC.C.3.A.3, SC.H.1.A.1, SC.H.1.A.7	Science Online, p. 396 Visualizing Lightening, p. 397 MiniLAB: Investigating Charged Objects, p. 398
Section 2: Electric Current 3 sections 1. Describe how voltage difference causes current flow. 2. Explain how batteries produce a voltage difference in a circuit. 3. List the factors that affect an object's electrical resistance. 4. Define Ohm's law.	National Content Standards: UCRS, UCPS, UCRS.A.1.A.2, B.2.B.4	Florida Benchmarks: SC.C.3.A.1, SC.H.1.A.7, SC.H.2.A.1	MiniLAB: Investigating Battery Addition, p. 402 Investigate Health, p. 403 Lab: Identifying Conductors and Insulators, p. 406 Video Lab
Section 3: Electrical Energy 3 sections 1. Describe the difference between series and parallel circuits. 2. Recognize the function of circuit breakers and fuses. 3. Calculate electrical power. 4. Calculate the electrical energy used by a device.	National Content Standards: UCRS, UCPS, UCRS.A.1.A.2, B.2.B.4, B.6.F.9	Florida Benchmarks: SC.C.3.A.1, SC.H.1.A.7, SC.H.1.A.8, SC.H.1.A.9	Integrate Career, p. 408 Applying Math: Power Used by a Circuit, p. 411 Science Online, p. 412 Applying Math: Electrical Energy Used by a Microwave Oven, p. 412 Lab: Comparing Series and Parallel Circuits, pp. 414-415 Science and Language Arts: Invisible Man, p. 416

Lab Materials	Reproducible Resources	Section Assessment	Technology						
Launch Lab: Battery Flashlight bulb, insulated wire, electrical tape or battery holder	Chapter Fast File Resources Foldable Worksheet, p. 15 Note-taking Worksheet, pp. 31-33 Directed Reading Overview, p. 17	Section Assessment Section Review, p. 399	Links: Works includes: • Interactive Teacher Edition • Lesson Planner with calendar • Access to all program blacklines • Correlations to standards • Web links						
MiniLAB: transparent tape Need materials? Contact Science Kit at 1-800-220-7777 or www.ck12.org	Chapter Fast File Resources Transparency Activity, p. 40 MiniLAB, p. 3 Enrichment, p. 28 Reinforcement, p. 39 Directed Reading, p. 18	Portfolio Performance Applying Math, p. 399 Content Section Review, p. 399	Section Focus Transparency Interactive Chalkboard CD-ROM Classroom (PASC) TeacherWorks Plan Video Lab						
MiniLAB: D-cell batteries (2), 2 used bulbs and sockets (2), insulated wire Lab: battery flashlight bulb, bulb holder, insulated wire	Chapter Fast File Resources Transparency Activity, p. 43 MiniLAB, p. 4 Enrichment, p. 29 Reinforcement, p. 38 Directed Reading, p. 19 Lab Worksheet, pp. 4-6 Lab Activity, pp. 9-12	Portfolio Performance Assessment, p. 405 MiniLAB, p. 402 Applying Math, p. 405 Content Section Review, p. 405	Section Focus Transparency Teaching Transparency Interactive Chalkboard CD-ROM TeacherWorks Plan Video Lab						
Lab: 6 V dry-cell battery, small lights with sockets (8), aluminum foil, paper clips, tape, scissors, paper	Chapter Fast File Resources Transparency Activity, p. 44 Enrichment, p. 30 Reinforcement, pp. 19, 20 Transparency Activity, pp. 44-46 Lab Activity, pp. 13-14 Lab Worksheet, pp. 7-8 Mathematics Skill Activities, p. 9	Portfolio Performance Assessment, p. 413 Applying Math, pp. 411-412 Applying Math, p. 413 Content Section Review, p. 413	Section Focus Transparency Teaching Transparency Interactive Chalkboard CD-ROM TeacherWorks Plan						
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End of Chapter Assessment		
Blackline Masters	Technology	Professional Series
Chapter Fast File Resources Chapter Review, pp. 35-36 Chapter Tests, pp. 37-40 Standardized Test Practice , pp. 56-59	<ul style="list-style-type: none"> MindJogger Videoquiz Virtual Labs CD-ROM ExamView® Pro Testmaker TeacherWorks CD-ROM Interactive Chalkboard CD-ROM 	Performance Assessment in the Science Classroom (PASC)

8-Step Process

Differentiated Instruction

The following resources provide materials for use with diverse student needs.

Florida Physical Science with Earth Science Teacher Wraparound Edition

- Each chapter's Resource Manager pages show reduced worksheets and transparencies, including options for reading and mathematics support. The following labels are used to help you decide which activities are appropriate for your students:
 - L1** appropriate for students with learning difficulties
 - L2** within the ability range of all students
 - L3** designed for students who have mastered the content
- Features in the margins of the *Teacher Wraparound Edition* are labeled with the above learning levels and the following:
 - ELL** appropriate for English-language learners
 - COOP LEARN** designed for a small group
 - LS** strategies that address different learning styles
 - P** students produce work appropriate for their portfolios

StudentWorks™ Plus CD-ROM

- *StudentWorks™ Plus* is ideal for auditory learners, English-language learners, or reluctant readers. It combines the *Student Edition* on CD-ROM with a full audio reading of the text in English so that students can simultaneously read and listen to the book. Spanish and Haitian Creole summaries are also available for each chapter. It also includes animations with audio.

Reading Essentials for Florida Physical Science with Earth Science

- This workbook contains the content of the *Student Edition* written at a reading level two to three grades lower than the *Student Edition*. It is appropriate for struggling readers and ELL students. To make the content accessible to all learners, it includes additional reading strategies and extra *Foldables™* projects.

Additional Components

- Dinah Zike's *Foldables™* are found in each chapter and provide a kinesthetic study organizer that students can use throughout the chapter.
- The Glencoe Professional Series component *ELL Strategies for Science* helps meet the needs of English-language learners.
- At fl.gpscience.com, you will find a multilingual science glossary that lists key science terms in English, Spanish, Haitian Creole, and seven other languages. You also will find tools for differentiation including an Interactive Tutor, Vocabulary PuzzleMaker, and WebQuests.
- Virtual Labs provide application and enrichment opportunities for students as interactive simulations.

8-Step Process



Administer Mini-Assessments of Benchmarks

Check Progress

Assessment is the heart of the Florida Continuous Improvement Model. Assessments will tell you how successful your instruction was and what adjustments need to be made. Using different assessment techniques will help you meet the diverse learning styles of your students.

Assessment		
	Student Edition	Technology and Online Resources
Section	<i>Reading Checks</i> throughout the text assess student comprehension.	More Section Review at fl.gpscience.com provides additional section questions.
		Unique section assessment questions correlated to Benchmarks follow each <i>Interactive Chalkboard™</i> presentation.
	<i>Section Reviews</i> provide questions of different ability levels.	
Chapter	<i>Chapter Review</i> pages include Using Vocabulary, Checking Concepts, Interpreting Graphics, and Applying Math assessments. Benchmark correlations are given.	Chapter Review at fl.gpscience.com provides additional chapter questions.
		<i>ExamView® Pro Testmaker</i> CD-ROM enables test generation by chapter or Benchmark.
		<i>TeacherWorks™</i> CD-ROM contains transparencies, including <i>Chapter Review</i> , <i>Chapter Test</i> , and <i>Assessment</i> , and worksheets for each chapter.
FCAT	Each chapter ends with two pages of Standardized Test Practice . These questions are written in all four FCAT formats and are correlated to Benchmarks.	Standardized Test Practice at fl.gpscience.com provides additional questions.
		<i>ExamView® Pro Testmaker</i> CD-ROM includes a pretest, posttest, and practice questions for each Benchmark. These questions come from <i>Mastering the FCAT</i> .
		<i>TeacherWorks™</i> CD-ROM contains the <i>FCAT Transparencies</i> book. There are two transparencies for each assessed Benchmark.
		<i>Succeeding on the FCAT</i> CD-ROM is a Benchmark-driven tutorial that can provide student feedback and teacher data.

8-Step Process



Provide Tutorials for Non-Mastery Students

Provide Practice

Assessment and daily observations will help you identify students who need additional help mastering the Sunshine State Standards. The following resources will help you meet students' needs.

Tutorials for Reading and Science Skills

Teacher Classroom Resources

Reading Essentials for Florida Physical Science with Earth Science—a key resource for struggling and reluctant readers. Reading level is two to three grade levels below the *Student Edition*.

Chapter Resources

- Note-taking Worksheets—content outlines students can complete
- Directed Reading for Content Mastery (English and Spanish)—consists of an overview page, two pages of review by section, and a key terms page
- Reinforcement worksheets—review chapter content
- Teaching Transparency Activity—black and white copy of teaching transparency with worksheet for students to complete

Mathematics Skills Activities—allows students to practice mathematics skills while reinforcing science concepts; correlated to the Sunshine State Standards, Mathematics in the *Teacher Wraparound Edition*.

Reading and Writing Skills Activities—offers science-based reading and writing activities; models FCAT formats; correlated to the Sunshine State Standards, Language Arts

Science Notebook—presents a step-by-step approach to improving student note-taking ability with strategies based on the Cornell note-taking model; builds scientific and academic vocabulary skills, scientific writing skills, and ability in reading for critical content; uses Bloom's Hierarchy of Learning to indicate strategy levels

Study Guide and Reinforcement—includes worksheets and study tools for each section

Performance Assessment in the Science Classroom—contains rubrics and assessment-task checklists

Technology

Succeeding on the FCAT CD-ROM—Benchmark-based tutorials

StudentWorks™ Plus CD-ROM—combines the *Student Edition* on CD-ROM with full audio reading of the text in English; includes Spanish and Haitian Creole summaries; contains student worksheets, *Reading Essentials for Florida Physical Science with Earth Science*, and *Laboratory Activities Manual*

Video Labs—for student review, absent students, and students who have difficulty with labs; one lab per chapter; DVD and VHS

fl.gpescience.com

Standardized Test Practice—quizzes correlated to the Sunshine State Standards

Vocabulary PuzzleMaker—word searches, games, and crossword puzzles

8-Step Process



Provide Enrichment for Mastery Students

Provide Enrichment

Students who master content will benefit from challenging, hands-on investigations that can be done in the classroom or a computer lab.

Teacher Classroom Resources

Differentiated Instruction, Challenge activities—in-depth strategies in the *Teacher Wraparound Edition* for mastery students

Enrichment Worksheets—activities in *Chapter Resources* that extend chapter topics or explore related topics

Science Inquiry Lab Manual—open-ended activities that develop critical-thinking in science

Probeware Lab Manual—labs that use a probe or sensor to collect data

Cultural Diversity—activities that put scientific achievements in a multicultural context

Earth Science Critical Thinking/Problem Solving, *Physical Science Critical Thinking/Problem Solving*—two resources that help students develop higher-order thinking skills in science

Study Guide and Reinforcement—includes worksheets and study tools for each section

Performance Assessment in the Science Classroom—contains rubrics and assessment-task checklists

Technology

Virtual Labs CD-ROM—interactive lab simulations

StudentWorks™ Plus CD-ROM—combines the Interactive *Teacher Wraparound Edition*, planning tools, and electronic versions of print resources

fl.gpescience.com

Standardized Test Practice—quizzes correlated to the Sunshine State Standards

8-Step Process



Monitor Instructional Delivery

Demonstrate Performance

School leadership support and monitoring is an integral part of the 8-Step Process. *Florida Physical Science with Earth Science* provides options to track your Benchmark coverage.

TeacherWorks™ CD-ROM

- create printable lesson plans with Benchmark correlations and resources
- customize lessons to align with various capabilities and skill levels of your students

Florida Planning Guide for Continuous Improvement

- focuses on ways teachers can intervene to help struggling students improve their performance
- contains Academic Improvement Plan, a daily assignment document that can be used to reflect and identify additional modified lessons for the diverse needs of students
- includes Monitor Benchmark Progress chart, a weekly Benchmark proficiency document that provides a quick solution for each achievement level
- includes Maintenance Progress chart, a weekly Benchmark review and evaluation document that records periodic reviews of each Sunshine State Standard and illustrates your Benchmark review progress
- editable version of this guide also available on *TeacherWorks™* CD-ROM

Science YES!

- professional development modules that provide additional content support for key science concepts

Curriculum Mapping for Physical Science with Earth Science

- incorporates the 8-Step Continuous Improvement Plan to prepare your students for the FCAT
- correlates each Sunshine State Standard to all available Glencoe middle school print and technology materials
- utilizes a scaffolding content approach to ensure that Benchmarks are reinforced throughout middle school

8-Step Process



Maintain Efficacy of the Process

Help Students Retain Knowledge

Once students have mastered a skill, it is important that they retain what they have learned. Reinforcement should be an integral part of daily lesson plans. The *Florida Physical Science with Earth Science* program offers many options for skill and content reinforcement.

Science Skills

MindJogger Videoquizzes

- game show format to help students review every main idea and key term in the textbook
- VHS and DVD

ExamView™ Pro Testmaker CD-ROM

- includes questions from *Mastering the FCAT* test prep book
- contains a pretest, posttest, and practice questions in FCAT formats for each Benchmark

Interactive Tutor at fl.gpescience.com

- vocabulary-based word searches, puzzles, and games
- one per chapter

FCAT Skills

Mastering the FCAT

- provides Benchmark-based practice questions in FCAT formats
- includes student recording chart

Succeeding on the FCAT CD-ROM

- Benchmark-based tutorial

FCAT Transparencies

- two transparencies for each Benchmark
- can be used for pretests or posttests

Standardized Test Practice at fl.gpescience.com

- quizzes correlated to the Sunshine State Standards

Academic Improvement Plan

Student _____ Teacher _____

Course _____ Date _____

Benchmark(s):

Problem Area	Solution Steps to Be Taken	Activities/Labs/ Resources Needed	Evaluation Status



Monitor Progress (Progress Review & Evaluation)

Benchmark(s)	1st Review	2nd Review	3rd Review	4th Review	Mastery Evaluation



Maintenance

Problem Area Identified benchmarks in content area	Solution Steps Modified Activities/Labs/Resources
	Low-level achievement:
	Mid-level achievement:
	High-level achievement:

Pacing Guide

Pacing Guide for Integrated Science I to Florida Physical Science with Earth Science

The pacing guide for Integrated Science I to *Physical Science with Earth Science* will allow you to concentrate on the Sunshine State Standards assessed on the grade 11 FCAT. Items that cover Sunshine State Standards and Benchmarks are in red.

Chapter 1 The Nature of Science

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Days 7 & 8	Day 9
Pretest	Section 1	Section 2	Section 3	MiniLAB	Lab (1-p)	Lab (2-p)	Chapter Review
Launch Lab	Section 2	MiniLAB			Chapter Review		Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3	Day 4
Pretest	Section 2	MiniLAB	Lab (2-p)
Launch Lab	MiniLAB	Section 3	Chapter Review
Section 1	Section 3	Lab (1-p)	Standardized Test Practice

Chapter 2 Science, Technology, and Society

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Days 7 & 8	Day 9
Pretest	Launch Lab	MiniLAB	Section 2	Lab (1-p)	Section 3	Lab (2-p)	Chapter Review
	Section 1	Section 2	MiniLAB				Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3	Day 4
Pretest	MiniLAB	Lab (1-p)	Lab (2-p)
Launch Lab	Section 2	Section 3	Chapter Review
Section 1	MiniLAB	Chapter Review	Standardized Test Practice

Pacing Guide

Chapter 3 Motion, Acceleration and Forces

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6 & 7	Day 8
Launch Lab Section 1	Section 1 MiniLAB	Section 2	Section 3 MiniLAB	Section 3 Lab (1-p)	Lab (2-p) Chapter Review	Chapter Review Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3	Day 4
Launch Lab Section 1 MiniLAB	Section 2 MiniLAB Section 3	Lab (1-p) Lab (2-p)	Lab (2-p) Chapter Review Standardized Test Practice

Chapter 4 The Laws of Motion

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5 & 6	Day 7
Launch Lab Section 1	Section 2 MiniLAB	Lab (1-p)	Section 3	Lab (2-p) Chapter Review	Chapter Review Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3	Day 4
Launch Lab Section 1 Section 2	MiniLAB Lab (1-p)	Section 3 Lab (2-p)	Chapter Review Standardized Test Practice

Pacing Guide

Chapter 5 Energy

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6 & 7	Day 8
Launch Lab Section 1	MiniLAB	Lab (1-p) Section 2	Section 2	MiniLAB	Lab (2-p) Chapter Review	Chapter Review Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3	Day 4	Day 5
Launch Lab Section 1 MiniLAB	Lab (1-p) Section 2	MiniLAB Section 2	Lab (2-p)	Chapter Review Standardized Test Practice

Chapter 6 Work and Machines

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6 & 7	Day 8
Launch Lab Section 1	MiniLAB	Section 2	MiniLAB Section 3	Section 3 Lab (1-p)	Lab (2-p) Chapter Review	Chapter Review Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3	Day 4	Day 5
Launch Lab Section 1 MiniLAB	Section 2 MiniLAB	Section 3 Lab (1-p)	Lab (2-p) Chapter Review	Chapter Review Standardized Test Practice

Pacing Guide

Chapter 7 The Earth-Moon-Sun System

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6 & 7	Day 8
Launch Lab Section 1	Section 2	MiniLAB	Lab (1-p) Section 3	Section 3 MiniLAB	Section 3 Lab (2-p)	Chapter Review Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3	Day 4	Day 5
Launch Lab Section 1 Section 2	MiniLAB Lab (1-p)	Section 3 MiniLAB	Lab (2-p) Chapter Review	Chapter Review Standardized Test Practice

Chapter 8 The Solar System

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6 & 7	Day 8	Day 9
Launch Lab	MiniLAB Section 1	Section 2 MiniLAB	Lab (1-p)	Section 3	Section 3 Section 4 Lab (2-p)	Lab (2-p) Chapter Review	Chapter Review Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3	Day 4	Day 5
Launch Lab Section 1 MiniLAB	Section 2 Lab (1-p)	Section 3 MiniLAB	Section 4 Lab (2-p)	Chapter Review Standardized Test Practice

Pacing Guide

Chapter 9 Heat and States of Matter

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6 & 7	Day 8	Day 9
Launch Lab Section 1	Section 2 MiniLAB	Section 2 Section 3	MiniLAB Section 3	Lab (1-p)	Section 4	Lab (2-p) Chapter Review	Chapter Review Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3	Day 4	Day 5
Launch Lab Section 1 Section 2 MiniLAB	MiniLAB Section 2	Lab (1-p) Section 4	Lab (2-p)	Chapter Review Standardized Test Practice

Chapter 10 Waves

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6 & 7	Day 8
Launch Lab Section 1	Section 2 MiniLAB	Section 2 MiniLAB	Lab (1-p)	Section 3	Lab (2-p) Chapter Review	Chapter Review Standardized Test Practice Lab (2-p)

90-minute period

Day 1	Day 2	Day 3	Day 4	Day 5
Launch Lab Section 1 Section 2 MiniLAB	MiniLAB Section 2	Lab (1-p) Section 3	Lab (2-p)	Chapter Review Standardized Test Practice

Pacing Guide

Chapter 11 Sound and Light

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7 & 8	Day 9
Launch Lab Section 1	MiniLAB Section 1	Section 2 Section 3	MiniLAB Section 3	Lab (1-p)	Section 4	Lab (2-p) Chapter Review	Chapter Review Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3	Day 4	Day 5
Launch Lab Section 1 MiniLAB	Section 2 Section 3 MiniLAB	Lab (1-p) Section 4	Lab (2-p)	Chapter Review Standardized Test Practice

Chapter 12 Earth's Internal Processes

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6 & 7	Day 8	Day 9
Launch Lab Section 1 MiniLAB	Section 1 Section 2	Section 2 Section 3	Section 4 MiniLAB	Lab (1-p)	Lab (2-p)	Chapter Review	Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3	Day 4	Day 5
Launch Lab Section 1 Section 2	MiniLAB Section 3	Section 4 MiniLAB	Lab (1-p)	Lab (2-p) Chapter Review Standardized Test Practice

Pacing Guide

Chapter 13 Electricity

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7 & 8	Day 9
Launch Lab Section 1	MiniLAB	Section 2 MiniLAB	Section 2	Lab (1-p)	Section 3	Lab (2-p)	Chapter Review Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3	Day 4	Day 5
Launch Lab Section 1 MiniLAB	Section 2 MiniLAB	Lab (1-p) Section 3	Lab (2-p)	Chapter Review Standardized Test Practice

Chapter 14 Magnetism

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7 & 8	Day 9
Launch Lab Section 1	MiniLAB Section 1	MiniLAB	Section 2	Section 3	Lab (1-p)	Lab (2-p) Chapter Review	Chapter Review Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3	Day 4
Launch Lab Section 1 MiniLAB	MiniLAB Section 2	Section 3 Lab (1-p) Chapter Review	Lab (2-p) Chapter Review Standardized Test Practice

Pacing Guide

Chapter 15 Electromagnetic Radiation

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6 & 7	Day 8
Launch Lab Section 1 MiniLAB	Section 1 Section 2 MiniLAB	Section 2	Lab (1-p)	Section 3	Lab (2-p) Chapter Review	Chapter Review Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3	Day 4
Launch Lab Section 1 MiniLAB Section 2	Section 2 MiniLAB Lab (1-p)	Section 3 Lab (2-p)	Chapter Review Standardized Test Practice

Chapter 16 Energy Sources

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8
Launch Lab Section 1	MiniLAB MiniLAB	Section 2	Section 3	Section 3	Lab (1-p)	Lab (2-p) Chapter Review	Chapter Review Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3	Day 4
Launch Lab Section 1 MiniLAB	Section 2 Section 3 MiniLAB	Lab (1-p) Chapter Review	Lab (2-p) Chapter Review Standardized Test Practice

Pacing Guide

Chapter 17 Weather and Climate

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Days 6 & 7
Launch Lab	Section 1	Section 2	Section 2	Section 4	Lab (2-p)
Section 1	Lab (1-p)	MiniLAB	Section 3		Chapter Review
MiniLAB					Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3	Day 4
Launch Lab	Lab (1-p)	Section 3	Lab (2-p)
Section 1	Section 2	Section 4	Chapter Review
MiniLAB	MiniLAB		Standardized Test Practice

Chapter 18 The Living Cell

45-minute period

Day 1	Day 2	Day 3	Day 4	Days 5 & 6	Day 7
Launch Lab	Lab (1-p)	Section 2	Section 2	Lab (2-p)	Chapter Review
Section 1	MiniLAB			Chapter Review	Standardized Test Practice
MiniLAB					

90-minute period

Day 1	Day 2	Day 3
Launch Lab	Lab (1-p)	Lab (2-p)
Section 1	Section 2	Chapter Review
MiniLAB		Standardized Test Practice

Pacing Guide

Chapter 19 Properties of Atoms and the Periodic Table

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Days 6 & 7
Launch Lab Section 1	MiniLAB Section 2	Section 2 Section 3	MiniLAB Section 3	Lab (1-p) Chapter Review	Chapter Review Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3
Launch Lab Section 1 MiniLAB Section 2	Section 3 MiniLAB Lab (1-p)	Lab (2-p) Chapter Review Standardized Test Practice

Chapter 20 Earth Materials

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Days 7 & 8	Day 9
Launch Lab Section 1	MiniLAB Section 1	Lab (1-p)	Section 2 Section 3	MiniLAB	Section 4	Lab (2-p) Chapter Review	Chapter Review Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3	Day 4
Launch Lab Section 1 MiniLAB	Lab (1-p) Section 2 Section 3	MiniLAB Section 4 Chapter Review	Lab (2-p) Chapter Review Standardized Test Practice

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Chapter 21 Earth's Changing Surface

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Days 8 & 9	Day 10
Launch Lab Section 1	MiniLAB Section 1	Lab (1-p)	Section 2 MiniLAB	Section 2	Section 3	Section 4	Lab (2-p) Chapter Review	Chapter Review Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3	Day 4
Launch Lab Section 1 MiniLAB	Lab (1-p) Section 2	MiniLAB Section 3 Section 4	Lab (2-p) Chapter Review Standardized Test Practice

Chapter 22 Chemical Bonds

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Days 6 & 7	Day 8
Launch Lab Section 1	Lab (1-p) MiniLAB	Section 2	Section 3	MiniLAB	Lab (2-p) Chapter Review	Chapter Review Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3	Day 4
Launch Lab Section 1 Lab (1-p)	Section 2 MiniLAB Section 3	MiniLAB Chapter Review	Lab (2-p) Chapter Review Standardized Test Practice

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Chapter 23 Chemical Reactions

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Days 7 & 8	Day 9
Launch Lab Section 1	MiniLAB	Section 2 Section 3	Section 4 MiniLAB	Section 4	Lab (1-p)	Lab (2-p) Chapter Review	Chapter Review Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3	Day 4
Launch Lab Section 1 MiniLAB Section 2	Section 3 Section 4 MiniLAB	Section 4 Lab (1-p) Chapter Review	Lab (2-p) Chapter Review Standardized Test Practice

Chapter 24 Solutions, Acids, and Bases

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Days 7 & 8	Day 9
Launch Lab Section 1	MiniLAB	Section 2	Section 3	MiniLAB	Section 4	Lab (2-p)	Chapter Review Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3	Day 4
Launch Lab Section 1 MiniLAB	Section 2 Section 3 MiniLAB	Section 4 Lab (2-p)	Chapter Review Standardized Test Practice

Pacing Guide

Chapter 25 Nuclear Changes

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Days 7 & 8	Day 9
Launch Lab Section 1	MiniLAB	Section 2 Section 3	Section 4 MiniLAB	Section 4	Lab (1-p)	Lab (2-p) Chapter Review	Chapter Review Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3	Day 4
Launch Lab Section 1 MiniLAB	Section 2 Section 3 Section 4 MiniLAB	Lab (1-p) Chapter Review	Lab (2-p) Chapter Review Standardized Test Practice

Chapter 26 Stars and Galaxies

45-minute period

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Days 8 & 9	Day 10
Launch Lab Section 1	MiniLAB	Section 2	MiniLAB	Lab (1-p)	Section 3	Section 4	Lab (2-p)	Chapter Review Standardized Test Practice

90-minute period

Day 1	Day 2	Day 3	Day 4
Launch Lab Section 1 MiniLAB	Section 2 MiniLAB Lab (1-p)	Section 3 Section 4 Chapter Review	Chapter Review Standardized Test Practice

45-minute period

All Chapters
211 days

90-minute period

All Chapters
111 days

45-minute period

Sunshine State Standard
152 days

90-minute period

Sunshine State Standard
83 days



Glencoe Florida Science, Grade 7 Correlated to Sunshine State Standards

This correlations guide will help you organize long and short-term planning to make sure that the necessary Florida Benchmarks are covered in your science classroom. The Benchmarks in bold print are the in-depth Benchmarks for the section.

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Section 2: Standards of Measurement	pp. 14–27	
Section 3: Communicating with Graphs	pp. 28–30	

Chapter 2: Science, Technology, and Society

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