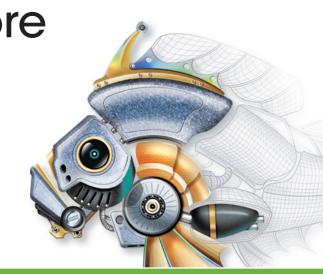


Reviewer's Guide

Pearson Integrated High School Mathematics

Mathematics I • Mathematics II • Mathematics III





Pearson Integrated High School Mathematics

Pearson Integrated High School Mathematics offers a hybrid instructional model that consists of digital delivery of content during instructional time, supplemented by a write-in student edition (worktext) in which students capture their understandings of the concepts presented as they work through the problems.

Out-of-classroom support is available through the animated lessons, math tutor videos, and instructional summaries in the Student Worktext. The in-class instruction can be further enhanced with the robust math tools and dynamic activities that are part of the digital courseware.

Introduction to Pearson Integrated High School Mathematics

Student Worktext
Teacher's Guide
Pearson SuccessNet®
5-Step Lesson Structure
Online Digital Walkthrough
Getting Started
Your Homepage
Navigating
Digital Path Contents
Virtual Nerd™ Tutorial Videos
MathXL® for School
_esson Planning
Assessment Resources

PROGRAM COMPONENTS

COMPONENT	PRINT	CD/DVD	ONLINE PearsonSuccessNet	MOBILE iPad/Android
Student Worktext	√	√	√	√
Teacher's Guide	√	√	V	√
Pearson Integrated High School Mathematics Implementation Guide	√		√	√
Interactive Digital Path Chapter Opening Videos Animated Lessons* Self-Assessments* Dynamic Activities* Math Tools* Key Concepts* Lesson Vocabulary and Glossary* MathXL® for School Interactive Practice			V	
Virtual Nerd™ Tutorial Videos			V	√
Student Resources Practice, Problem Solving, and Test Prep Worksheets Homework Video Tutors in English and Spanish Multilingual Handbook (10 languages)			V	
Teaching Resources Lesson Resources: Leveled Practice, Reteaching, Enrichment, ELL/Vocabulary Support, Problem Solving, Standardized Test Prep, Activities, Games, Puzzles, Daily Lesson Quiz Chapter Resources: Teaching with TI Technology, Find the Errors, Performance Tasks, Chapter Projects			V	
Online Lesson Planner with Common Core State Standards			√	
SuccessTracker Assessment System with Common Core State Standards			V	
Assessment Resources Diagnostic Test, Lesson Quizzes, Chapter Tests, Benchmark Tests, End of Course Test			√	
Digital Lesson DVD*		√		
ExamView® Assessment Suite CD-ROM		√		
Answers and Solutions DVD		√		

STUDENT WORKTEXT

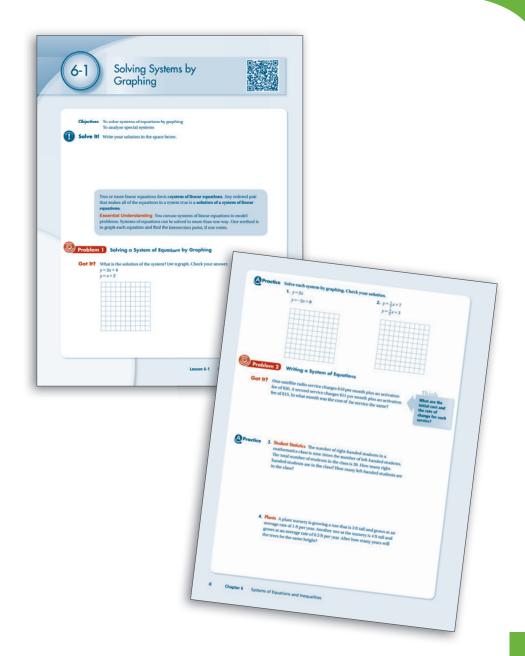
The Student Worktext is the students' personal record of their mathematics learning over the course of the school year. It also provides an artifact of learning that students can draw from in subsequent courses. This interactive format helps students stay organized and provides a resource for students to review (vocabulary, key concepts, formulas, properties, examples) and practice independently.

Lesson Components

- **Essential Understandings** and lesson exposition of key concepts
- Highlighted vocabulary words
- Ample space for students to complete the **Got It?** problems that follow each Problem
- Think and Plan boxes model the thinking embraced by the Common Core State Standards.
- Lesson Check with questions aligned to the Common Core Standards for Mathematical Practice
- Practice and homework exercises (levels A, B, and C)
- QR codes throughout each lesson that, when clicked on using a smartphone or tablet computer, will direct students to the appropriate Virtual Nerd™ tutorial video

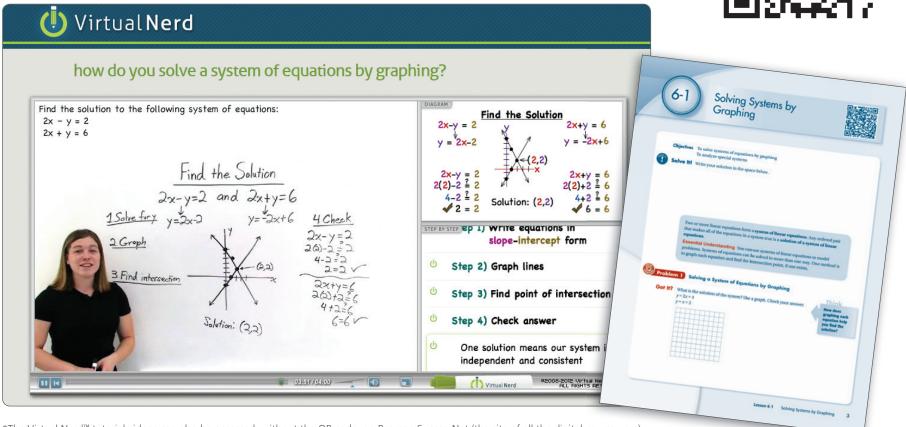
Chapter Components

- Get Ready! diagnostic assessment at the beginning of every chapter
- **Chapter Review** with a summary of the main concepts and accompanying exercises for each lesson
- **Pull It All Together**—rich, real world performance tasks designed to reflect the performance tasks students are likely to encounter on the Next Generation Assessments currently under development
- Technology, Activity, and Lesson Labs



A unique feature of *Pearson Integrated High School Mathematics* is the QR code at the beginning of every lesson. QR codes can be scanned by most mobile devices like phones, iPads[®], and even laptop computers. Students can scan the QR code to access Virtual Nerd[™] tutorial videos that directly relate to the content in the lesson. To learn more about Virtual Nerd[™] tutorial videos and the exclusive dynamic whiteboard go to **virtualnerd.com**.





^{*}The Virtual Nerd™ tutorial videos can also be accessed, without the QR code, on Pearson SuccessNet (the site of all the digital courseware).

The Teacher's Guide is a comprehensive tool that teachers can use as they plan for and teach every phase of the 5-part lesson of the program. At the chapter level, teachers find math background, tips for error prevention, and assignment guides to help them in planning for instruction. At the lesson level, teachers find resources for instruction, practice, assessment, and remediation. To help with planning, there are teaching notes and probing questions to the left of images of each **Solve It!** and problem that teachers will be presenting from the digital courseware.

Lesson Components:

- Preparing to Teach: Big Ideas and Essential Understandings, Mathematics Background, ELL Support, Lesson Vocabulary, Dynamic Activities
- 5-Step Lesson Structure: Interactive Learning, Guided Instruction, Lesson Check, Practice, Assess and Remediate
- All necessary teaching notes and guiding questions with answers to facilitate the lesson
- Answers at point of use with correlations to the Common Core Standards for Mathematical Practice
- Images of the student-facing pieces: the problems from the digital courseware and reduced parts of the student pages
- Lesson Quiz with prescription for remediation
- Intervention, On-Level, and Extension resources

Chapter Components:

- Get Ready! Diagnostic Assessment
- Chapter Opener with an overview of the **Big Ideas and Essential Understandings**
- Mathematics Background with common errors
- Chapter Review with Summative Questions
- Pull It All Together performance tasks aligned to the Common Core Standards for Math Content and the Standards for Mathematical Practice



Pearson SuccessNet® is the gateway for students and teachers to all the digital components available for *Pearson Integrated High School Mathematics*.

Online Teacher Resources

- Teacher's Guide
- Editable Teaching Resources
- Progress Monitoring Assessments
- Implementation Guide
- Interactive Digital Path
- Additional Presentation Tools and Online Manipulatives
- SuccessTracker Assessment System with automatic grading
- Class and Student Reports aligned to the Common Core State Standards
- Classroom Management System
- Lesson Planner with editable lessons
- Content Search by Performance Standard

Online Student Resources

- Interactive Student Worktext
- Notetaking and Highlighting tools
- Student Worksheets
- Homework Video Tutors in English and Spanish
- Interactive Digital Path with videos, guided problems with audio, Dynamic Activities, self-check quizzes, glossary with audio in English and Spanish
- MathXL® for School—step-by-step practice with immediate feedback
- Math Tools and Online Manipulatives
- Virtual Nerd[™] Tutorial Videos
- Multilingual Handbook
- Assessments with immediate feedback and personalized remediation



PEARSON SUCCESSNET ICONS



Show the student-produced video demonstrating relevant and engaging applications of the new concepts in the chapter.



Find online definitions for the new terms with audio explanations in both English and Spanish.



Start each lesson with an attention-getting problem. View the problem online with helpful hints.



Increase students' depth of knowledge with interactive online activities.



Show Problems from each lesson solved step by step. Instant replay allows students to go at their own pace when studying online.



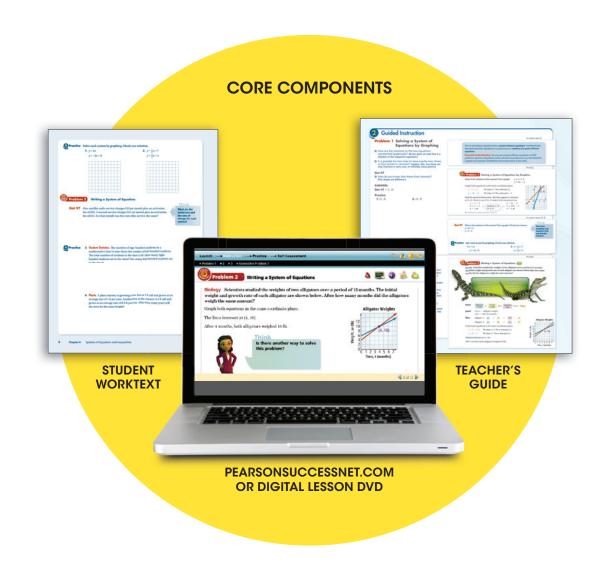
Prepare students for the Mid-Chapter Quiz and Chapter Test with online practice and review.

5-STEP LESSON STRUCTURE

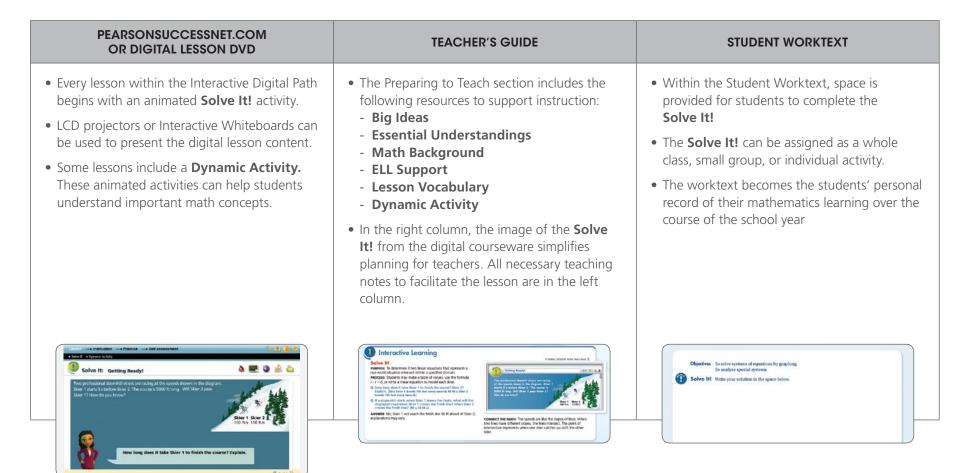
From a pedagogical perspective, this hybrid program will maintain the same five-part lesson structure that has been proven to be effective with *Pearson Prentice Hall High School Mathematics*: Interactive Learning, Guided Instruction, Lesson Check, Practice, and Assess and Remediate. It will also integrate the five principles of the program: problem solving, visual learning, differentiated instruction, interactive learning, and digital instruction. The following pages will provide a walkthrough of the 5-step lesson structure.

5-STEP LESSON STRUCTURE

- 1 Interactive Learning
- 2 Guided Instruction
- 3 Lesson Check
- 4 Practice
- **5** Assess and Remediate



Every lesson begins with problem-based interactive learning. Through the **Solve It!**, at the beginning of every lesson, teachers can activate students' prior knowledge and set the context for the **Essential Understanding** for the lesson. Students work through the real world problem, by first making sense of the problem, and then analyzing the situation, making solution plans, and presenting and justifying their answers to the class. This **Interactive Learning** experience develops multiple mathematical practices as students are actively involved in doing mathematics. Students interact with these concepts as they work individually or collaboratively to find a solution to the problem.



Step 2: Guided Instruction

5-STEP LESSON STRUCTURE

The **Guided Instruction** phase of the lesson begins with the **Essential Understanding** in which the focus of study for the lesson is formalized. An interwoven strand of reasoning connects the math that students learn, from the first lesson to the last, further supporting both the **Common Core Standards for Math Content** and the **Standards for Mathematical Practice**. Probing questions in the **Think and Plan** boxes model for students the thinking embraced by the mathematical practices. These prompts become less structured as students advance through the program and become more mathematically proficient.

PEARSONSUCCESSNET.COM **TEACHER'S GUIDE** STUDENT WORKTEXT OR DIGITAL LESSON DVD • The Instruction phase of the lesson guides • The supporting questions that accompany • There is ample space for students to complete students through problems aligned to the all problems help teachers to facilitate the the Got It? problems that follow each Common Core Standards for Math lesson, connect to the **Standards for** worked out problem from the Interactive **Content** with step-by-step solutions. Mathematical Practice, and guide students Digital Path. to understanding and more in-depth • The lesson window provides ample white • Students benefit in two ways from this reasoning. space for illustration. The space allows process of working out solutions and • Through the use of these scaffolding recording processes. Students are actively teachers to use interactive whiteboards and questions, students develop sound arguments engaged in the production of the solution, writing tools to draw additional examples, add emphasis, and provide notes. to explain their solution plans and become and the recording of their understandings more proficient in constructing viable becomes contextualized within a specific • Interactive math tools not only support and event, providing retrieval cues. arguments. extend what's taught in the lesson but also aid in the development of the **Standards for** Mathematical Practice cm 2 Writing a System of Equations

The **Lesson Check** presents timely opportunities for assessing students' understanding of the lesson content. The questions in **Do you know HOW?** assess students' procedural fluency with the concept presented in the lesson while the questions in **Do you UNDERSTAND?** focus on students' conceptual understanding of the concepts. Most of the tasks in the **UNDERSTAND** part of this assessment elicit the use of one or more **Common Core Standards for Mathematical Practice**. Higher order thinking skills, such as Reasoning, Compare and Contrast, and Error Analysis, focus students' attention on structure and meaning rather than on the solution.

PEARSONSUCCESSNET.COM OR DIGITAL LESSON DVD	TEACHER'S GUIDE	STUDENT WORKTEXT
Teachers and students can view the Lesson Check digitally within the Interactive Digital Path.	Within the Teacher's Guide, specific support is provided for students who may struggle with the Lesson Check.	Within the Student Worktext, space is provided for students to complete the Lesson Check . Teachers can review these questions in class or assign for independent practice.
 Additional teacher resources are available to support every lesson: Reteaching ELL Support Enrichment Problem Solving Practice Test Prep Teaching with TI Technology Find the Errors Activities, Games, and Puzzles 	At the end of each lesson, the question in the Close encourages students to express verbally or in writing their understanding of the concepts presented.	• For students in need of additional support, instructional summaries of the concepts presented (Take Note and Essential Understanding boxes) can serve as reminders of the day's lesson.
Lesson 6-1 Click the printer icon in the toolbor to print this page. Lesson Check Do you UNDESTANCY Compared to the control of the control	Lesson Check To gave to twee YOMP The part twee YOMP The your VIOLESTAND The YOMP The YOMP	Lesson Check

The **Practice** phase affords students opportunities to solidify their procedural fluency and conceptual understanding of the lesson content. These exercises are comprised of three different levels: practice, application and challenge problems. The exercises with the Common Core logo help students become more proficient with the **Standards for Mathematical Practice**. The **Application** exercises require students to develop mathematical models for real world problem situations. **Application** exercises with the STEM label present real-world problem situations related to science, technology, or engineering topics.

PEARSONSUCCESSNET.COM **TEACHER'S GUIDE** STUDENT WORKTEXT OR DIGITAL LESSON DVD • Teachers and students can view the More • After the **Lesson Check**, teachers can • After completing the **Got It?** in class, Practice and Problem Solving Exercises digitally assign a series of practice problems. The students can use these worked out examples within the Interactive Digital Path. Teacher's Guide provides a variety of leveled in the Student Worktext as a reference assignments to meet the needs of all when completing independent practice or • Students can access digital content to support students. All answers are provided at point homework exercises. in-class instruction: of use. - Interactive eText with linked videos. • For students in need of additional support or vocabulary, and lesson resources • The **Homework Ouick Check** saves teachers remediation, they will find a web link to the - Dynamic Activities and Math Tools time by suggesting which problems to check digital courseware in the worktext where they - Online glossary with audio in the next day for a quick review of key skills. can revisit the day's lesson. For each lesson, **English and Spanish** they will also find a QR code that, when • The practice problems that correspond to - Homework Video Tutors in English scanned, will present video tutorials of the a specific **Standard for Mathematical** concepts addressed in the lesson. and Spanish **Practice** are also documented in the - MathXL® for School—unlimited practice Teacher's Guide. tutorials with instant feedback Practice

Step 5: Assess and Remediate

One plumber charges a \$60 service cull fee plus \$35 per hour for labor. Another plumber charges a \$25 service call fee plus \$37.50 per hour for labor. How long would a job take if

3. What is the solution of the system of equations? Explain

5-STEP LESSON STRUCTURE

slope and y-intercept. The

The final phase of the lesson is **Assess and Remediate**. Each lesson ends with a **Lesson Quiz** (available within the printed Teacher's Guide and online within the Teaching Resources) and opportunities to provide differentiated instruction for students. The Teacher's Guide also includes personalized prescriptions for remediation based on a student's **Lesson Quiz** results. This enables teachers to make data-driven instructional decisions about review assignments for intervention, on-level, and extension.

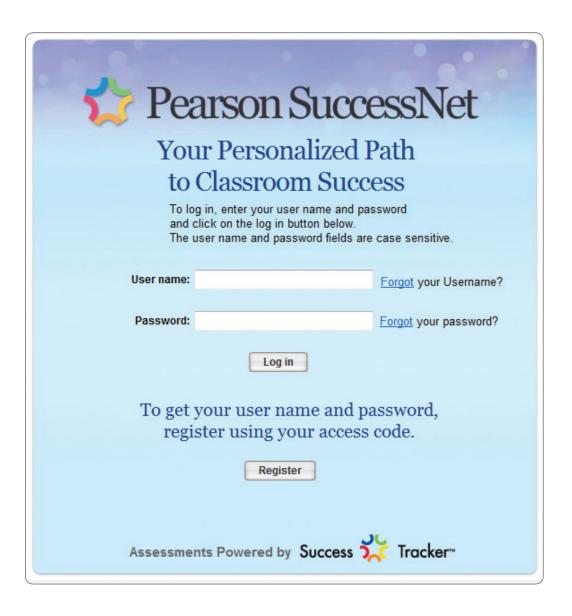
PEARSONSUCCESSNET.COM **TEACHER'S GUIDE** STUDENT WORKTEXT OR DIGITAL LESSON DVD • The **Lesson Quiz** is not provided in the • Teachers can view the guiz from the • The **Lesson Quiz**, also available as a PDF, online Teacher's Guide posted on Pearson assesses lesson skills and concepts. Student Worktext, Students can access a self-SuccessNet®. Additional assessment resources. assessment for each lesson digitally via the • The Prescription for Remediation helps are posted within the Teaching Resources link. Interactive Digital Path. teachers use the guiz results to make • The worktext helps students stay organized • Teachers also have the option of assigning instructional decisions about appropriate tests and guizzes online via SuccessTracker. and provides a resource for students to review review assignments. Each online assessment is automatically vocabulary, key concepts, formulas, properties • A complete list of resources is available for scored and the appropriate intervention and worked out exercises. Features such as intervention, on-level, and extension. These is automatically assigned to each student the **Take Note** and **Key Concept** boxes can review assignments are also available on based on individual student performance. be used when preparing for assessments. Pearson SuccessNet. The compiled data appears in three different reports making it easier for teachers to analyze whole class and individual student performance. A 🔤 3 🔬

PEARSONSUCCESSNET.COM **TEACHER'S GUIDE** STUDENT WORKTEXT OR DIGITAL LESSON DVD My Math Video **Get Ready! Get Ready!** Every chapter begins with a My Math Video. Within the Teacher's Guide, the **Get Ready!** The **Get Ready!** diagnostic assessment appears on the first page of every chapter within the This video provides students with a real-world diagnostic assessment appears on the first Student Worktext. The **Get Ready!** is also application of the chapter topics. After students page of every chapter. Teachers can use the watch the video, consider discussing how the assessment to determine if students have the available as an online assessment on Pearson video relates to the chapter topics. prerequisite skills for the chapter. SuccessNet. The assessment is automatically scored and students receive instant remediation Other resources include: **Chapter Overview** or enrichment based on individual assessment results. • Online Lesson Planner The chapter overview contains everything • Editable Teaching Resources needed to help teachers prepare to teach a **Chapter Opener** • Editable Assessment Resources chapter such as, an overview of the **Big Ideas** • Online Assessment System The Chapter Opener in the Student Worktext and **Essential Questions**, correlation to the Common Core State Standards, and includes a list of the **Big Ideas** and **Essential** • Classroom Management System Questions for the chapter, a list of the Chapter Vocabulary. Common Core Domains, a Chapter Preview, Math Background and the Chapter Vocabulary. The Math Background page provides ongoing professional development that clarifies the chapter **Big Ideas** and **Essential Understandings**. It provides an explanation of key concepts along with a description of common errors. Get Ready! Using This Diagnostic Assessment Why Students Need These Skills A 💷 💿 🙆 ns of Equations and Inequalities Assign this diagnostic assassment to determine if students have the prerequisite skills for Chapter 6. Get Ready! SOLVING INEQUALITIES Students will graph and solve systems of linear inequalities. WRITING FUNCTIONS Students write functions to solve real-world LINEAR SYSTEMS GRAPHING LINEAR EQUATIONS Students will solve systems of equations by graphing. Solving Equations **Looking Ahead Vocabulary** To remediate students, salect from these no INCONSISTENT Ask students to give real-world examples of situations that are inconsistent. 1. 3(2-2x)=-6(x-1) 2. 3p+1=-p+5 3. 4x-1=3(x+1)+xONSISTENT Ask students to give real-world examples of situation Solving Inequalities 7. Sr + 3 < 18 8. -4+1=-6 9. -3t-5<34 10. $-(7f+16)-2f \le 0$ 11. 6s+7>-3(5s-4) 12. $\frac{1}{2}(x+6)+1 \ge -5$

PEARSONSUCCESSNET.COM	TEACHER'S GUIDE	STUDENT WORKTEXT
MathXL® for School	Pull It All Together	Pull It All Together
MathXL® for School provides unlimited practice and remediation with tutoring and guided assistance at the mid-chapter and end of chapter. Most problems are short answer and require students to actually "do the math." Each problem regenerates to a new problem, so students have unlimited practice opportunities.	The Pull It All Together performance tasks provide an opportunity for students to demonstrate their ability to use reasoning to solve real-world problems. The teacher is provided guiding questions to support students' understanding of the task. A rubric is found in the Implementation Guide.	The Pull It All Together performance tasks are included in the Student Worktext. These rich, real-world performance tasks are designed to reflect the performance tasks that students are likely to encounter on the Next Generation Assessments currently under development.
	Ob system Devices	Chapter Review
Other resources include:	Chapter Review	The Chapter Review in the Student Worktext
 Online Lesson Planner Editable Teaching Resources Editable Assessment Resources Online Assessment System Classroom Management System 	The Chapter Review summarizes the Big Ideas and answer the Essential Questions . The teacher is also provided with additional Summative Questions to assess students' understanding of the Big Ideas .	includes a Quick Review and Example for each lesson of the chapter. Corresponding exercises are also provided for each lesson.
Such the reviews of equations by graphing.	Using Performance Texts Unknown day by County In register used in support contract to that year and the performance text in the performance text in the performance text in the performance of the perform	Planning an Exercise Program The size for each program to the receiver of the program to the receiver of the receiver of the size of the receiver of the recei

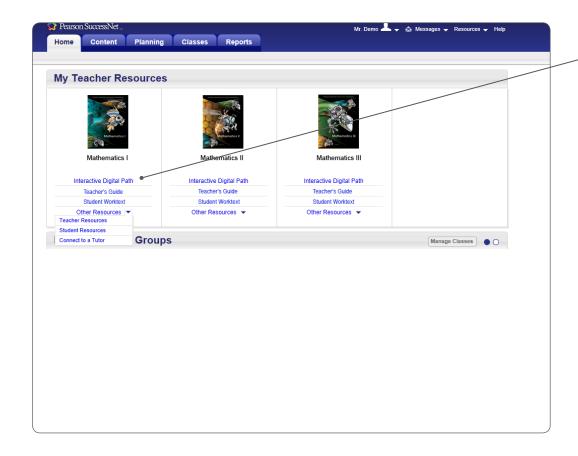
1. Getting Started

The following pages provide a walkthrough of the digital components found on Pearson SuccessNet.



- 1 Go to PearsonSuccessNet.com.
- 2 Enter the User name and Password.
 User name: INTHSMath
 Password: pearsonCCSS1
- 3 Click Log in.

2. Your Home Page

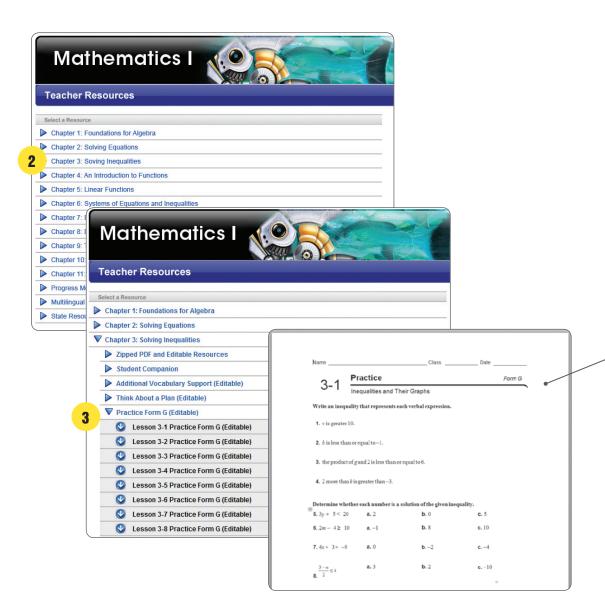


- 1 Access the Interactive Digital Path by clicking Interactive Digital Path. The Digital Path is the gateway to all digital components of the program.
- 2 Access your Interactive Student
 Worktext, Teacher's Guide, and Teacher
 Resources from links beneath each book
 image. Multiple courses can be accessed
 through the same home page. The Student
 Worktext and Teacher's Guide are also
 accessible on a mobile device
 (iPad/Android).

3. Navigating Teacher Resources

ONLINE DIGITAL WALKTHROUGH

Access your online **Teacher Resources** through the home page. Many resources are available in editable format.



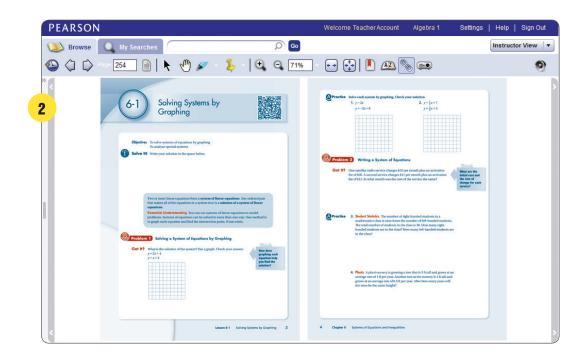


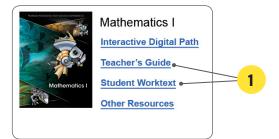
- 1 Select **Other Resources** from the home page, then click on the **Teacher Resources** link from the pull-down menu.
- 2 Click on the chapter.
- **3** Choose the resource and lesson.
- 4 Save and open to edit.

4. Navigating the eText

ONLINE DIGITAL WALKTHROUGH

Access your online **Student Worktext** and **Teacher's Guide** through the home page. The Student eText contains links to lesson tutorial videos, vocabulary, and other resources.



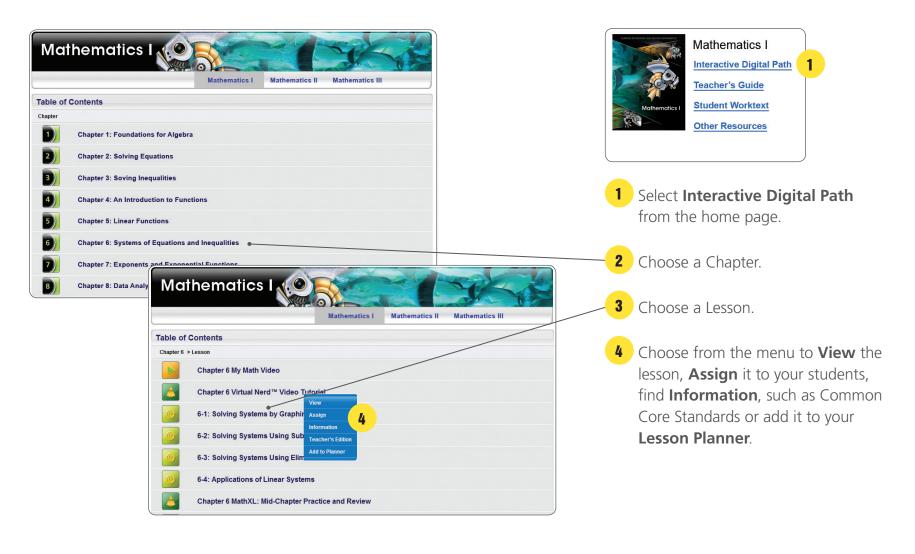


- 1 Select the **Student Worktext** or **Teacher's Guide** link from the home page.
- **2** Lesson tutorial videos, vocabulary, and other resources are linked at point of use.

5. Navigating Interactive Digital Path

ONLINE DIGITAL WALKTHROUGH

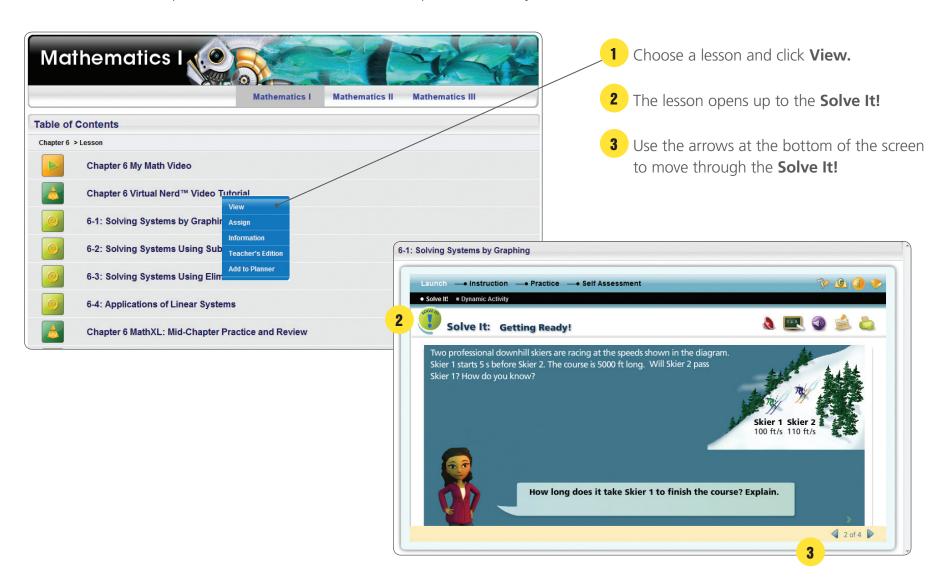
Access the Interactive Digital Path from your homepage. The Digital Path contains all the interactive chapter and lesson content.



6. Digital Path Solve It!

ONLINE DIGITAL WALKTHROUGH

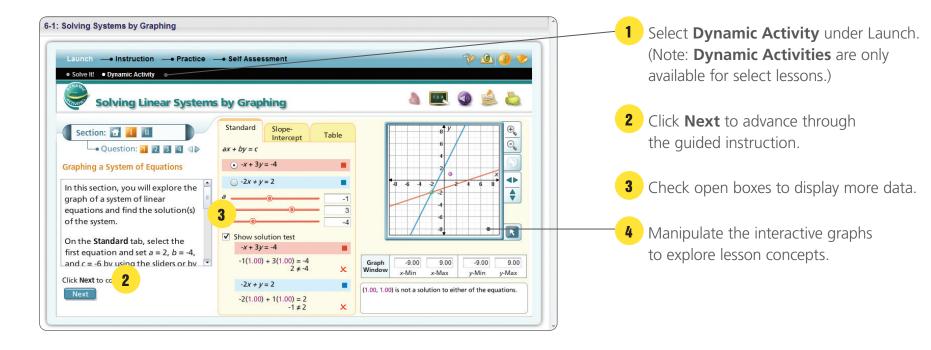
The **Solve It!** starts off the lesson by presenting a problem that helps connect what students know to an important concept in the lesson. Student have space in the Student Worktext to complete the activity.



7. Digital Path Dynamic Activity

ONLINE DIGITAL WALKTHROUGH

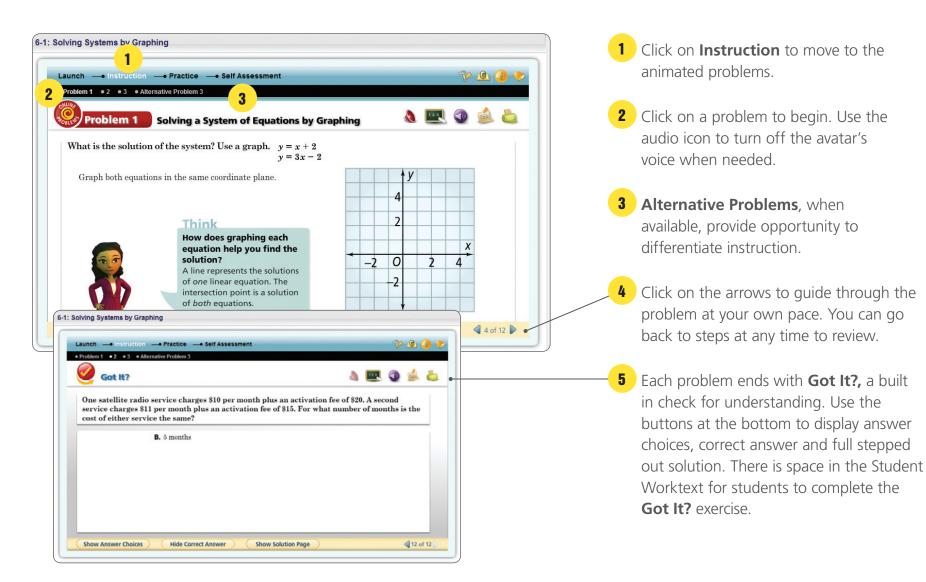
The **Dynamic Activity** is a virtual manipulative with guided instruction. There are over 90 different **Dynamic Activities** in this program. Another way to access the **Dynamic Activities** is to use the Search function found within the Content tab.



8. Digital Path Instruction

ONLINE DIGITAL WALKTHROUGH

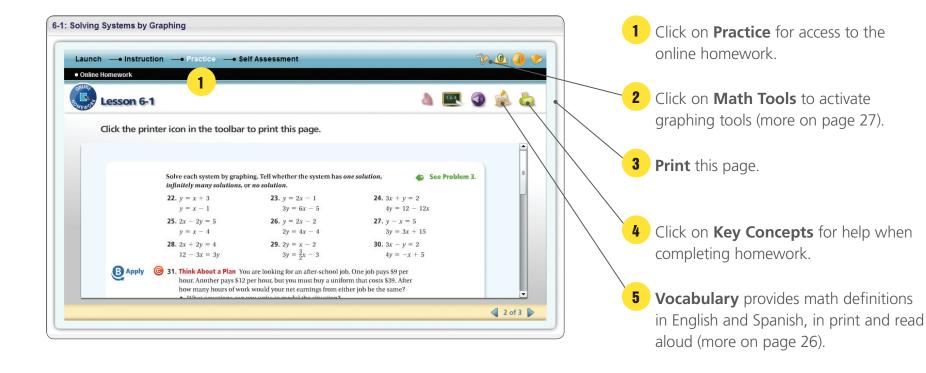
The **Instruction** phase of the lesson guides students through problems with step-by-step solutions. As teachers and students work through the problems, students record their understandings in the Student Worktext.



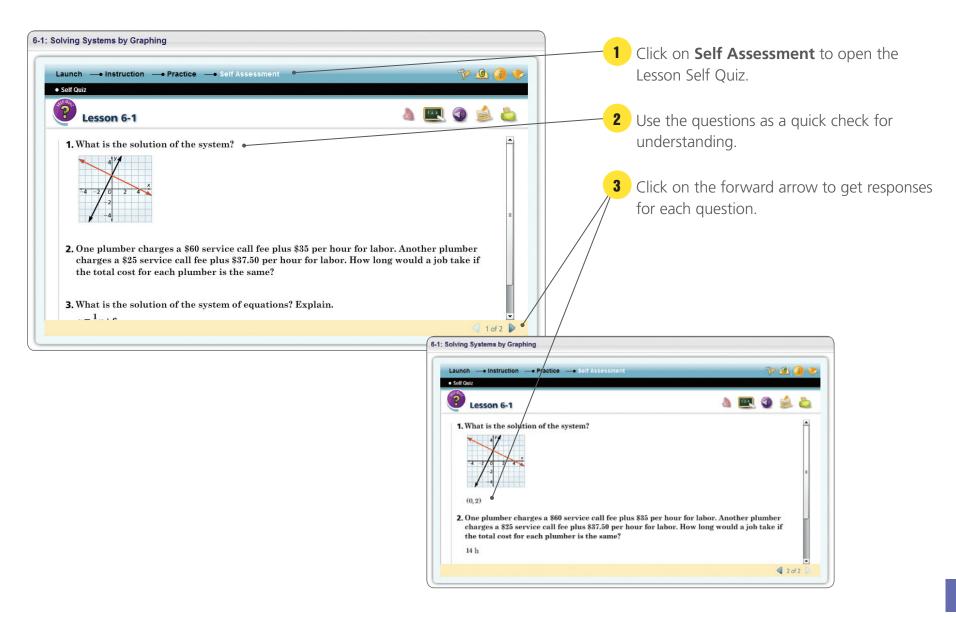
9. Digital Path Practice

ONLINE DIGITAL WALKTHROUGH

Students will find lesson practice exercises online under **Practice** as shown below. Lesson **Practice** exercises are also available within the Student Worktext.

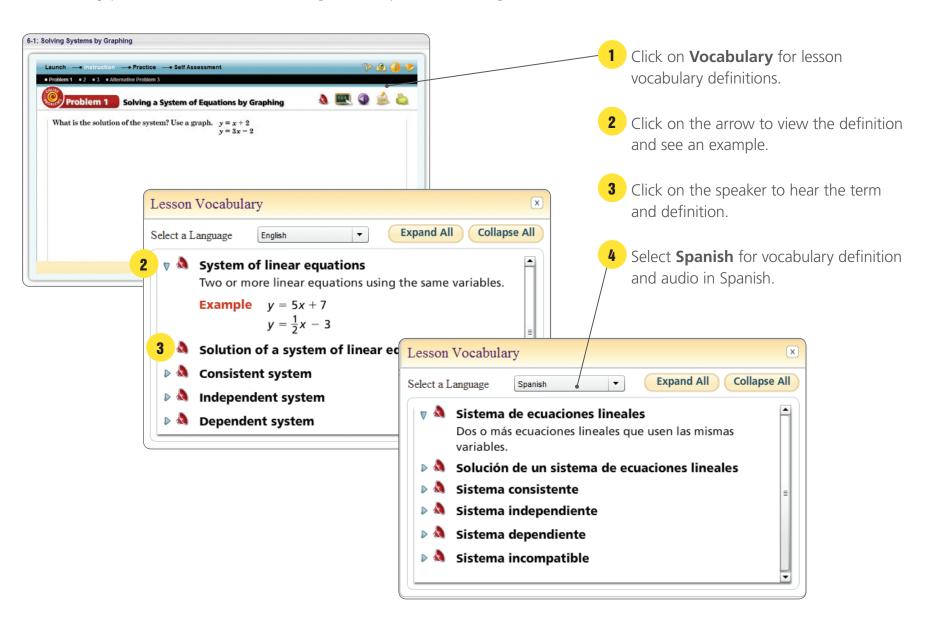


Students can test their knowledge using the Self Quiz for each lesson.



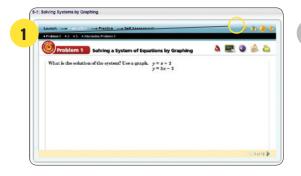
11. Digital Path Vocabulary

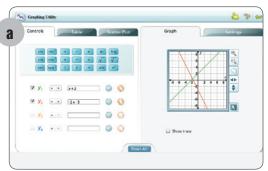
Vocabulary provides math definitions in English and Spanish, in writing and read aloud.

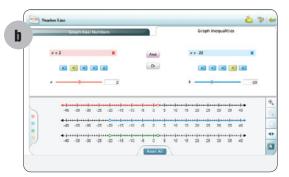


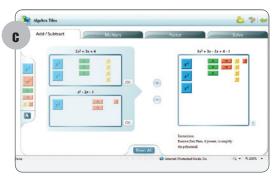
12. Digital Path Math Tools

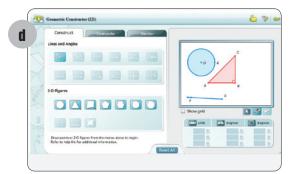
Math Tools help students explore and visualize concepts digitally.

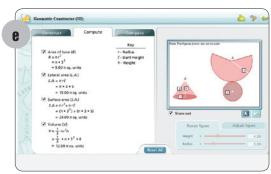




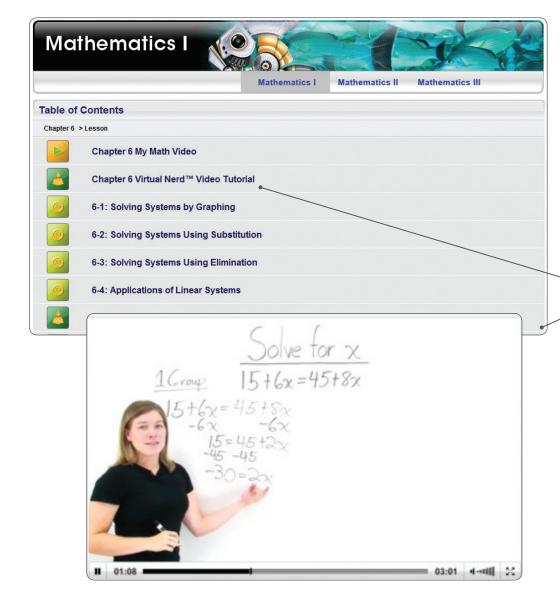








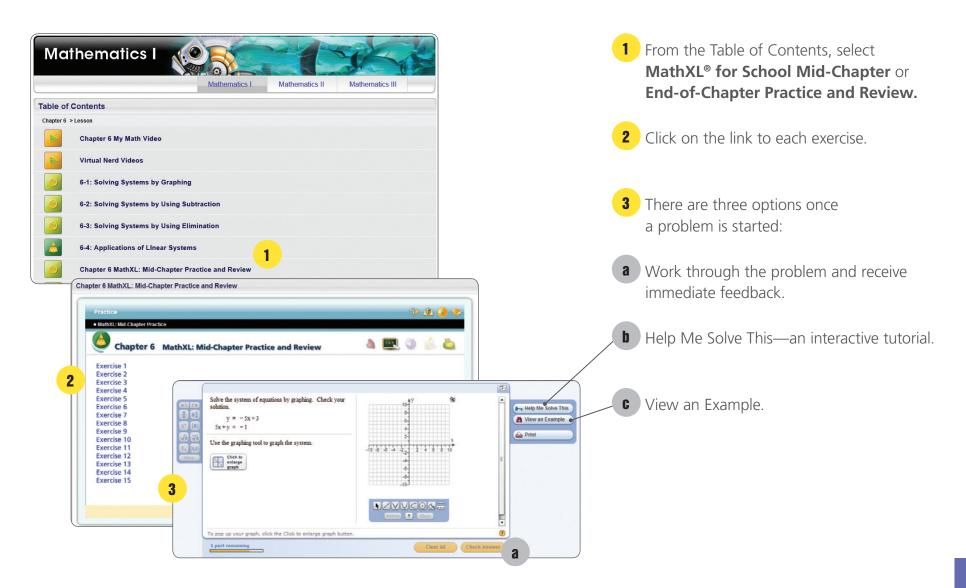
- 1 Click on **Math Tools** for access to all 5 tools:
- **a Graphing Utility:** Graph points, relations, functions, and inequalities on a coordinate plane.
- **Number Line Tool:** Add real numbers, graph inequalities on a number line, and plot real numbers and their opposites.
- **C** Algebra Tiles Tool: Add, subtract, multiply, factor and solve one-step equations using algebra tiles.
- **d 2-D Geometric Constructor Tool:**Graph points, segments, lines, angles, rays and polygons. Measure the perimeter and area of polygons.
- **8 3-D Geometric Constructor Tool:** Graph 3-D figures and compute their surface area and volume.



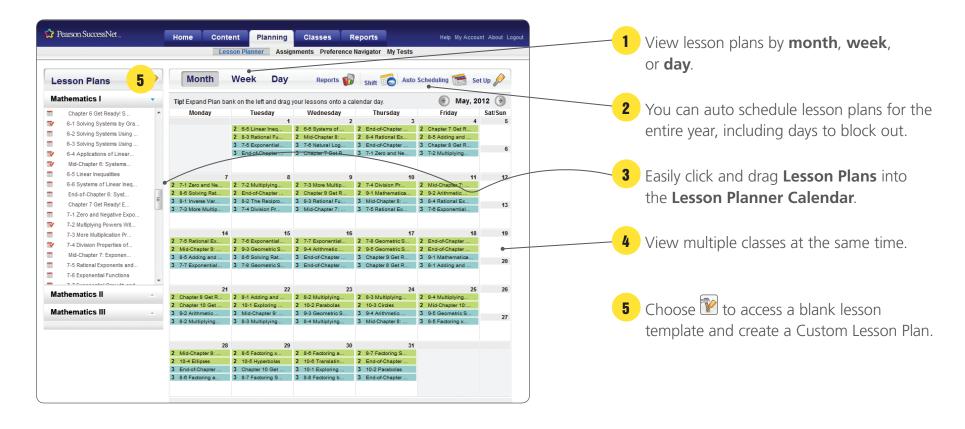


- 1 Select Interactive Digital Path from the home page.
- **2** Choose a chapter.
- 3 Students can scan the QR code in their Student Worktext or choose Virtual Nerd™ Videos from the Table of Contents within the digital path to access Virtual Nerd tutorial videos that directly relate to the content in the lesson. (To learn more about Virtual Nerd tutorial videos and the exclusive dynamic whiteboard go to virtualnerd.com.)

MathXL® for School exercises provide additional practice at the middle and end of every chapter and are accessible from the Chapter Table of Contents.

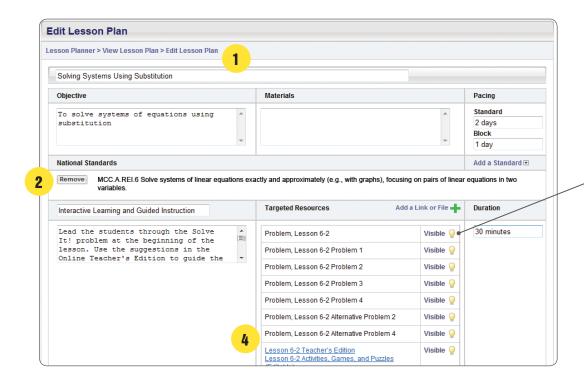


The Online Lesson Planner saves you time and helps you align your lessons to the Common Core State Standards.



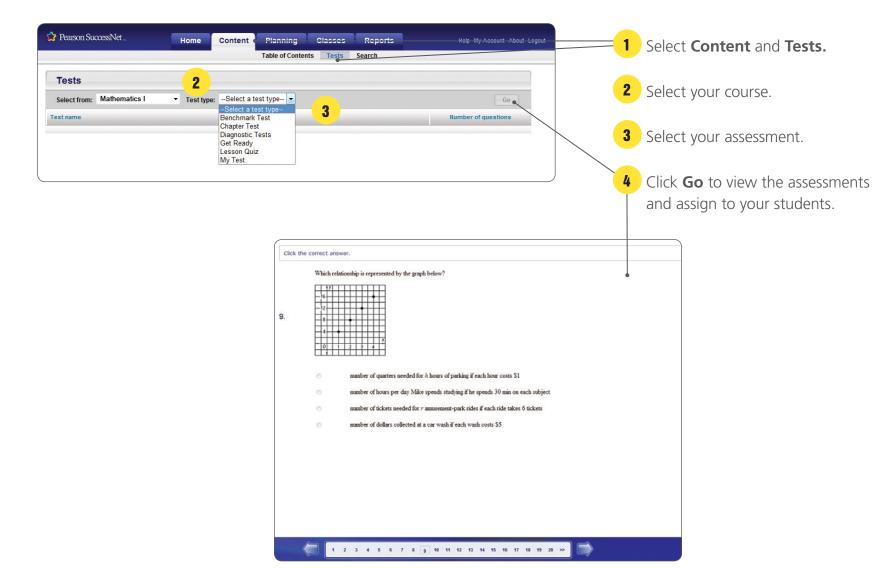
16. Lesson Planning

View/Edit **Lesson Plans** and save them into the calendar.



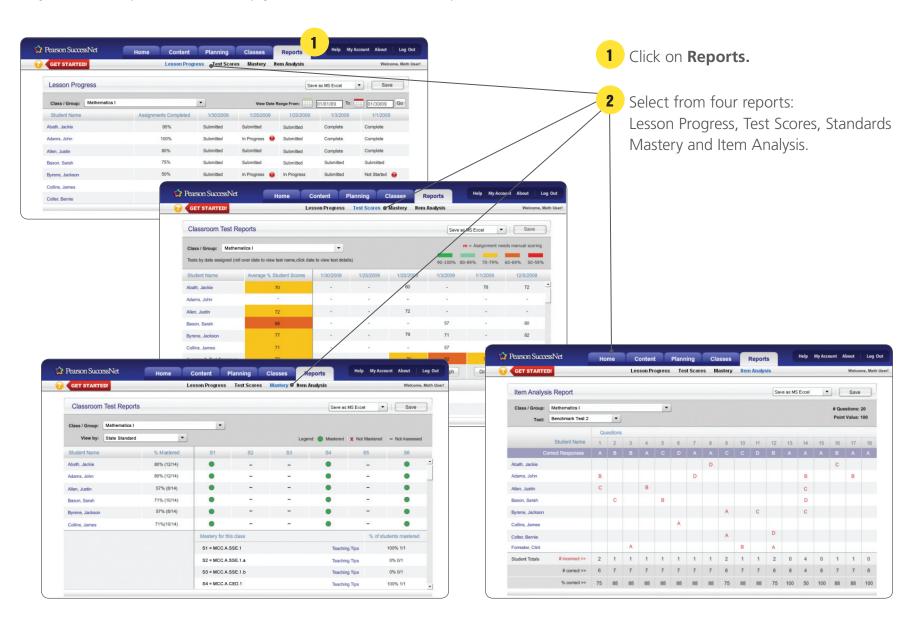
- 1 Create a new lesson plan or edit an existing lesson plan.
- 2 Add or Remove Common Core Standards.
- **3** Hide lesson resources that will not be used.
- 4 Links to digital content and print content embedded into lesson plans.

Pre-loaded **Progress Monitoring Assessments** save time and allow the teacher to quickly assign online assessments to students that are already aligned to the text and to the **Common Core State Standards**.



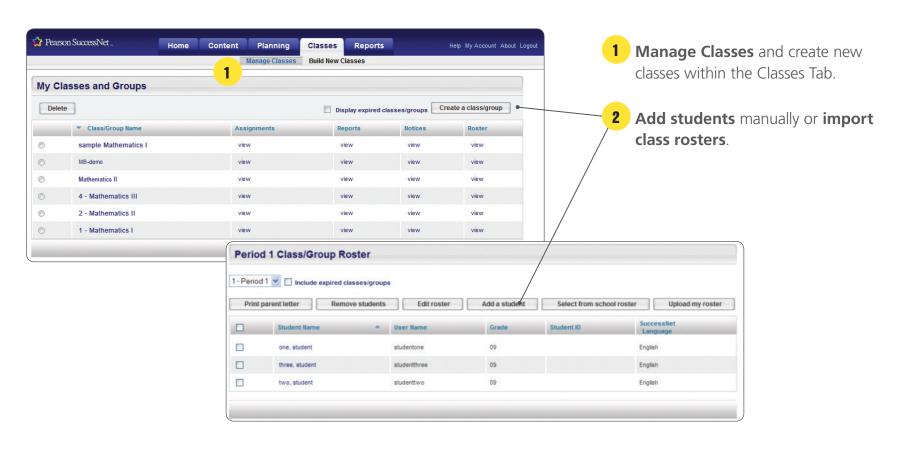
18. Assessment Resources

Reports are simple to run and help you track student and class performance.



19. Classroom Management Resources online digital walkthrough

Quickly and easily manage your classes, view assignments, reports, notices and rosters from one location.



NOTES

Try it for yourself! Go to PearsonSuccessNet.com

Enter the User name and Password below.

User name: INTHSMath Password: pearsonCCSS1

For more information, contact your Pearson Account Executive.

PearsonSchool.com 800-848-9500

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