

TRANSMATH® REVIEWER GUIDE



Dear Hillsborough County Reviewer:

Thank you for reviewing *TransMath* for students in the **Intensive Math Course for Grades 6–8**. Included within this submission package, we have provided everything needed for a comprehensive review of our research-based, intensive core program.

When you're ready to begin, please go here:

https://www.voyagersopris.com/florida/hillsborough/transmath

The Digital Review

The website above has been designed for Hillsborough County Public School District's review of *TransMath* which is a blended solution of both printed materials and web-based technology (all print materials available in eBook format). On this website, you will find:

- 1. The Reviewer Guide with step-by-step instructions on how to review *TransMath*
- 2. Introductory *TransMath* information and resources, including video overview, MAFS alignments, efficacy reports, testimonials, and a digital copy of the brochure
- 3. Links to both the student and teacher login pages to review the full curriculum and digital-only resources (assessment books, extension lessons, and resource guide), the *VmathLive* student technology and eBooks

	Level	User Name	Password
Teacher	1 (Gr. 6)	FreemanT155	KindSplash1
	2 (Gr. 7)	GreenT344	MushyBoot0
	3 (Gr. 8)	MooreT480	StillApple1
Student	1 (Gr. 6)	cooperb144	bluesun4
	2 (Gr. 7)	myersj259	firstbrake7
	3 (Gr. 8)	thomast723	graysurf3

Print Review and Additional Resources

The "Instruction and Pedagogy" section of the reviewer guide (pages 9–36) walks you through a sample *TransMath* unit using the eBooks, but you can also use the printed materials provided for this adoption. As requested by Hillsborough Public School District, we have included three (3) full sets of the student and teacher print materials, which include:

- Teacher Edition, Volumes 1 and 2 for Levels 1–3 (Eighteen Total Teacher Editions)
- Student Textbook for Levels 1–3 (Three Total Student Textbooks)
- Student Interactive Text for Levels 1–3 (Three Total Student Workbooks)
- Standards Alignment (Teacher Editions are tabbed/labeled in conjunction with alignment)
- Printed Reviewer Guide

Enjoy our fun, purposeful, and best-in-class curriculum! Please contact me with any questions or concerns.



Get to Know TRANSMATH®

Getting Started

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TRANSMATH®

Watch the TransMath Overview Video

- **1.** *Go to the TransMath Adoption Review site:* voyagersopris.com/florida/hillsborough/transmath
- 2. *View the video* on the *TransMath* Adoption Review site for an overview of the *TransMath* program and purpose.

FLORIDA 2018-2019 MADTHO ADOPTION

Third Edition TRANSMATH® Welcome, Florida Math Adoption Reviewers!

TransMath® is a unique pre-algebra program. Traditional core pre-algebra programs are built with algebra readiness as the goal. However, many students struggle to be successful in these courses due to a lack of foundational skills. TransMath shares the goal of algebra readiness but is designed with a specific emphasis on conceptual understanding for struggling math students (in Florida, Levels 1 and 2). With its unique dual-topic instructional approach and assortment of differentiation tools, TransMath delivers rigorous, standards-based instruction to prepare students for success in algebra while also providing the foundational skill instruction needed to fill gaps in knowledge. TransMath is an intensive core with the instructional supports to get students back on track with their peers and ready for algebra success.



DOWNLOAD THE REVIEWER GUIDE

We have created a comprehensive Reviewer Guide with step-by-step

instructions for the digital review process. Please download and have

this guide available before you begin to review.





MAFS ALIGNMENT & OTHER RESOURCES We have provided the following resources online to support your review of the materials.

> Alignment to MAFS • Publisher Questionnaire UDL Questionnaire • System Requirements Bid Details



EXPLORE TRANSMATH Please have your Reviewer Guide available to login and effectively navigate through the digital materials and begin with the Teacher Experience.



TRANSMATH®

Review the Standards Alignment Document

TransMath[®] aligns to all the standards for the M/J Pre-Algebra #12005070 course and includes the prerequisite skills required to master these standards.

- **1. Download this document** to view a complete list of MAFS and course standards covered in **TransMath**.
- 2. During the Instructional Design section of this Reviewer Guide, you will be directed to several examples of standards coverage using our Interactive Standards Alignment tool located in the eBooks.



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ENTER THE STUDENT CENTER



TransMath Materials and Technology

This Reviewer Guide was created for Florida to explore and review all *TransMath* components in a digital format. Outside of this guide, *TransMath* is available as a blend of print materials and engaging technology.

TEACHER MATERIALS

Teacher Guides (Two-volume set) VPORT® Online Data Management System Online Resources Access to **VmathLive**





STUDENT MATERIALS

Student Textbook Student Interactive Text Access to *VmathLive*

<image>



TRANSMATH®

Log in to the TransMath Teacher Center

1 Click Enter the Teacher Center

from the Adoption Review site to begin.

Please note Voyager Sopris Learning® offers single sign-on integrations to simplify accessibility and interoperate with pre-existing district technologies.

2. *Enter the username and password below,* to enter the *TransMath* Teacher Center website.

Username: **MooreT480** Password: **StillApple1**





TRANSMATH® Welcome, Florida Math Adoption Reviewers!

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EXPLORE TRANSMATH Please have your Reviewer Guide available to login and effectively navigate through the digital materials and begin with the Teacher Experience.

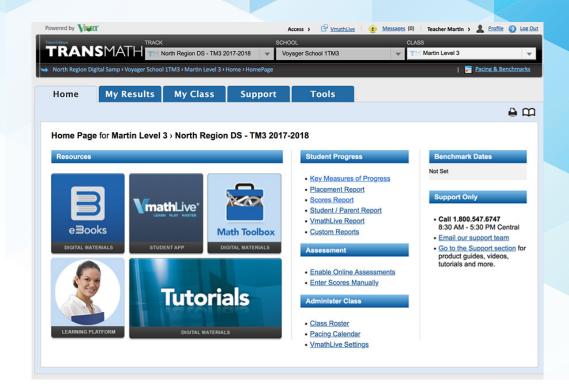


THIN Edition TRANSMATH® REVIEWER GUIDE

Teacher Center Overview

The Teacher Center is the landing page from which teachers can access all digital materials and resources used in *TransMath* including:

- **1. eBooks:** Includes digital versions of the print and digital-only books
- 2. *VmathLive*: Provides a teacher view of the student technology
- **3. Math Toolbox:** Contains all digital manipulatives used in instruction
- **4. Learning Platform:** Includes online training and ongoing support tools
- **5. Tutorials:** Contains all Teacher Talk Tutorials and Click-Thrus
- 6. Student Progress: Links to specific reports and data





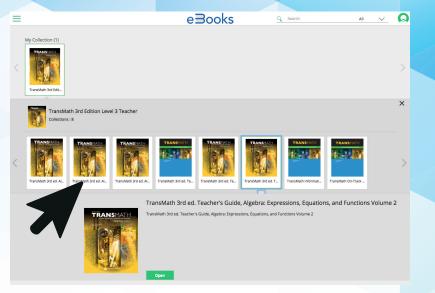
NOTE: More detailed information for each section will be covered throughout of the Review Guide.

TRANSMATH REVIEWER GUIDE

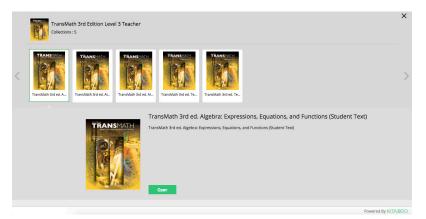
Access the Teacher Guide eBooks



Click the eBooks icon from the Teacher 1. Center to enter the bookshelf.



- Select the second book called Florida TransMath 3rd ed. 2. Teacher's Guide, Algebra: Expressions, Equations, and Functions Volume 2. Depending on your screen, you may need to click the right scroll arrow to view all books.
- 3.
- Click the green Open button to enter. The eBook has fully loaded once the toolbar appears across the top.





Instruction & Pedagogy

Let's take a look at *TransMath*'s unique instruction, pedagogy, and the supportive tools and resources that make it easy for teachers to implement and effective for students becoming algebra ready.

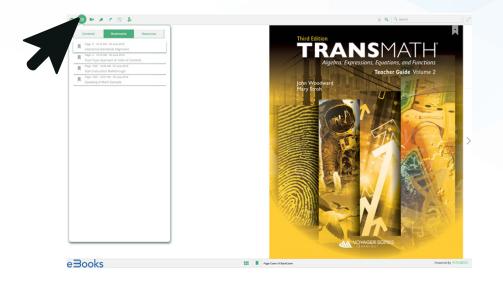
THIS SECTION ADDRESSES:

- Interactive Standards Alignment
- The Dual-Topic Approach
- Planning & Preparation
- Instructional Design



Review Interactive Standards Alignment

Explore how TransMath aligns to the MAFS and course standards. The Interactive Standards Alignment tool provides an easy way for teachers to search and review the standards inside the instruction.









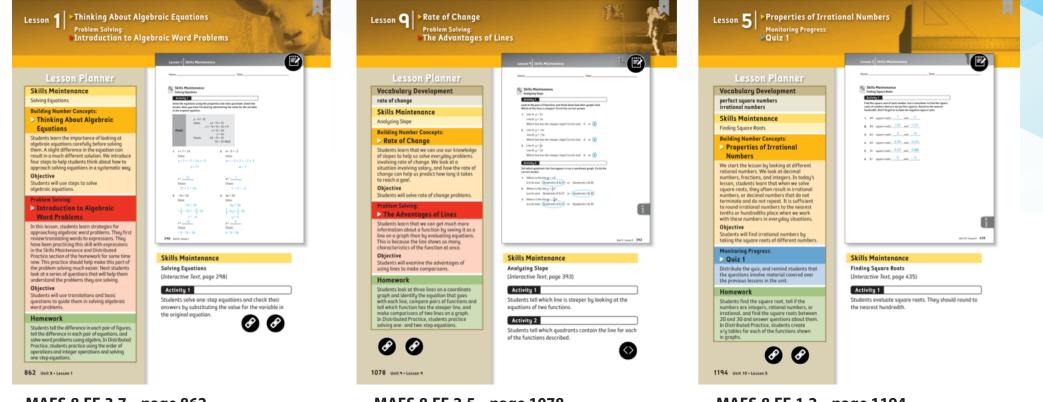
The Interactive Standards Alignment tool links directly to the point of instruction where a standard is taught.



Review Interactive Standards Alignment EXPRESSIONS & EQUATIONS

Please review a few examples of how *TransMath* covers standards related to **Expressions and Equations**, one component of the major work of grade 8.

Click the code in the Interactive Standards Alignment (in the correct Teacher Volume) to see the lesson.



MAFS.8.EE.3.7 – page 862

MAFS.8.EE.2.5 – page 1078

MAFS.8.EE.1.2 – page 1194



Review Interactive Standards Alignment **FUNCTIONS**

Please review a few examples of how *TransMath* covers standards related to **Functions**, one component of the major work of grade 8.

Click the code in the Interactive Standards Alignment (in the correct Teacher Volume) to see the lesson.

Lesson 1 Fintroduction to Fu Problem Solving: Coordinate Graph		Lesson 4 Problem Solving: Nonlinear Function	15
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MAFS.8.F.1.1 – pa	ige 1008	MAFS.8.F.1.3 – page	e 1187

MAFS.8.F.1.3 – page 1187



L Pr

Review Interactive Standards Alignment **TWO- & THREE-DIMENSIONAL SPACE**

Please review a few examples of how TransMath covers standards related to Two- and Three-Dimensional Space, one component of the major work of grade 8.

Click the code in the Interactive Standards Alignment (in the correct Teacher Volume) to see the lesson.

	tennes 1 Tradem Textury Concept of Visions Tradem Textury Concept of Visions Tradem Textury	Lesson 1 The Pythagorean Theorem	
Problem Solving: Concept of Volume Concept of Volume Generation of Volume Concept of Volu		the Pythagorean Theorem the Pythagorean Theorem theo	ritarian. 1 = 20 1 = -9 1 = -9
 between this and the surface area, or the measurement of the outside of the shapes, which we describe as the skin or the wrapping. The surface area of the surfa		HomeworkStudents find the areas of a square and ting being fields students are true of fish bubut properties of shapes and change the true, and prove the Pythogorean Theorem true, and prove the Pythogorean Theorem true (and prove the Pythogorean Theorem true (and prove the Pythogorean Theorem true).Stills Mainteanan Laterative Tout Laterative Tout 	2 419)

MAFS.8.G.2.6 – page 1158



Review Interactive Standards Alignment MATHEMATICAL PRACTICES

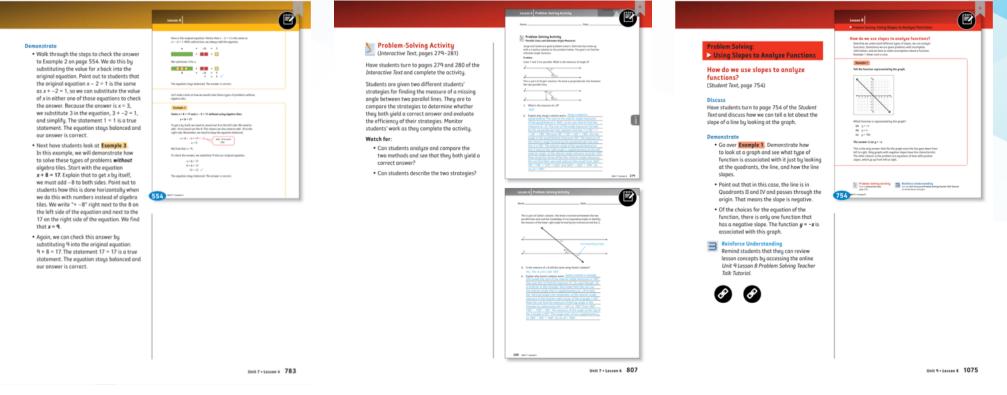
Please review a few examples of how TransMath covers standards in a variety of ways related to Mathematical Practices.

Click the code in the Interactive Standards Alignment (in the correct Teacher Volume) to see the lesson.

USE TOOLS STRATEGICALLY

MAKE SENSE OF STRUCTURE

MAKE SENSE OF PROBLEMS AND PERSEVERE IN SOLVING THEM



MAFS.K12.MP.5 – page 783

MAFS.K12.MP.7 – page 807

MAFS.K12.MP.1 – page 1075

THING Edition TRANSMATH® REVIEWER GUIDE

Dual-Topic Approach

What is the Dual-Topic approach?

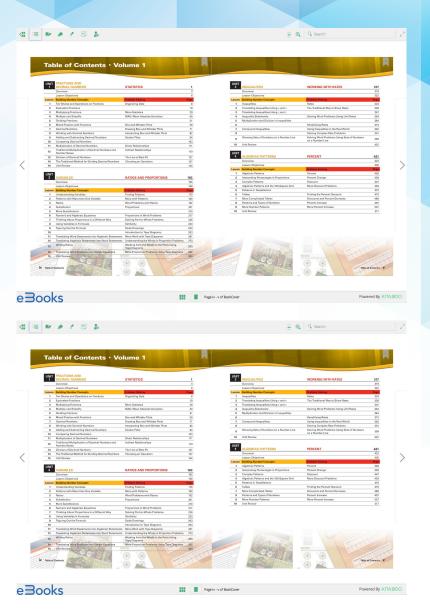
TransMath[®] utilizes a dual-topic approach divided into two learning components:

Building Number Concepts teaches math concepts and foundational skills in a scaffolded sequence.

Problem Solving engages students in critical thinking to solve multistep problems needed for algebra readiness.

Why is the Dual-Topic approach important?

Dual topics break learning into smaller parts to keep students engaged and reduce risks of cognitive overload. The dual-topic approach allows for more distributed practice wherein students have many opportunities to practice skills and concepts.



From the Table of Contents, review the dual topics covered in each unit of instruction.



Dual-Topic Approach BUILDING NUMBER CONCEPTS TOPIC

What is the Building Number Concepts topic?

In the Building Number Concepts topic, teachers direct the majority of the lesson by developing conceptual understanding, demonstrating visual models, and then monitoring students as they apply skills. The topics are designed to reinforce previously learned skills and expand upon students' foundational knowledge.

Why is the Building Number Concepts topic important?

In the Building Number Concepts topic, the instructional method is a more traditional approach. Students must have an advanced knowledge of foundational skills to achieve at grade level, and this portion of the lesson ensures students master those skills before applying them to the learning of new skills and standards.

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THIR Edition TRANSMATH® REVIEWER GUIDE

Dual-Topic Approach PROBLEM SOLVING TOPIC

What is the Problem Solving topic?

In the Problem Solving topic, teachers take on a more facilitator-like role so students can think and apply problem-solving strategies independently or in small groups. During this portion of the lesson, there is dialogue and collaboration between students learning new skills while teachers monitor progress.

Why is the Problem Solving topic important?

In the Problem Solving topic, there is a definitive change in both instruction and methodology from traditional to more interactive. The interactivity promotes a more enriched learning environment with students discussing multiple solutions, validating answers with reasoning, and applying previously learned skills. In this topic, the more complex college and career-ready standards are achieved—in-depth metacognitive and critical thinking, cooperative problemsolving, adaptive reasoning, and real-world application.

e Lessen Q Public What are the key volume formulas? (Student Text, pages 506-509) **Connect to Prior Knowledge** Begin by telling students that we learned a lot of volume formulas in this unit. Ask students to describe these form board or overhead.) formulas, remind t use to classify the si Lesson 7 these attributes r How do we use algebra to find unknown angle Link to Todou's Con Tell students that in to > Finding the Me these volume formula them all together to fi How do we use algebra to find shapes. unknown angle measures? (Student Text, pages 575-577) Engagement Strates Connect to Prior Knowl Demonstrate the diffe x+20+75=180 volume formulas we li Tell students that we look at connecting our past knowledge of lines and angles to help us find following way: measures of angles with less and less info · Show the cylinde given to us. out that the cylin circular base. Be Link to Today's Concept top and bottom (In today's lesson we use the relationship b make them alike different. angles and lines, as well as our knowledge algebra, to help us find the measure of ang How do we think about algebraic wor · Remind student Introduction to Algebraic Word learned for prism Demonstrate Display a prism, height. Remind s • Go over Example 1 on page 575 of th Student Text. In this example, we revie How do we think about algebraic word capital B means how to use algebraic equations to find problems? missing angle measure. Remind stude that the sum of the measures of the a (Student Text, pages 608–609) that form a straight angle is 180 dea Connect to Prior Knowled We know the measures of two of the o Remind students that we have been practicing 20 degrees and 75 degrees. translations with expressions for some time nov in the Distributed Practice. Read the following Point out that we can set up the equation as x + 20 + 75 = 180, where x equals statements and ask for volunteers to write the measure of the missing angle in degr simplified expressions on the board. When we add, we get x + 95 = 180. W One more than twice a number (2x + 1)ndd –95 to each side of the equation The sum of the ages of a girl and her sister who is 3 years older (2x + 3) get x = 85. The missing angle measu 85 degrees Three times the sum of x and 7, less 12 (3x + 9) Link to Today's Concept Tell students that today we will use translations like these to solve word problems algebraically. Have students look at Example 1 on page 608 Explain that in order to solve these word of the Student Text. In this example, we review problems, we will be translating words into translating a statement into an expression equations. Repeat the problems above but Jamie's age is twice Larissa's, plus 3 years. 816 Unit 7 + Lesson 7 this time give enough information so that the Be sure they see how to get the expression translations are equations. Have different 2x + 3. Also be sure students know the name volunteers come to the board and write and solve of all the parts of the statement. The letter x in the equations for x. the problem is a variable. The number in front One more than twice a number is eaua of the variable is called a coefficient. The to 5. (2x + 1 = 5; x = 2) number being added to the variable term is a The sum of the ages of a girl and her numeric term we call a constant. These terms sister who is 3 years older is equal to 13. should be familiar to students (2x + 3 = 13; x = 5)Three times the sum of x and 7, less 12 is eaual to 18. (3x + 9 = 18: x = 3 Unit 8 + Lesson 1 869

TRANSMATH® REVIEWER GUIDE

Dual-Topic Approach IES: IMPROVING MATHEMATICAL PROBLEM SOLVING GUIDE FOR GRADES 4–8

John Woodward, the author of *TransMath*[®], also served as the chair for the IES Improving Mathematical Problem Solving Guide for grades 4–8. *TransMath* incorporates each problem-solving recommendation into every daily lesson:

Recommendation 1: Problem-solving activities should be incorporated into daily instruction, not just saved for seatwork or occasional activities.

Recommendation 2: Students should be taught to think through the answers to questions as "What is the question asking me to do?" and "Why did these steps in solving the problem work or not work?"

Recommendation 3: Visual representations, such as tables, graphs, and diagrams should be used as a part of the problem-solving solution.

Recommendation 4: While there are multiple strategies in the various content and skills, students sharing, comparing, and discussing strategies to communicate their thinking while listening to others help them become flexible to think about other ways to approach problem solving.

Recommendation 5: The teacher should recognize and articulate mathematical concepts and notation during problem-solving activities so students begin to make connections.

EDUCATOR'S PRACTICE GUIDE

WHAT WORKS CLEARINGHOUSE

Improving Mathematical Problem Solving in Grades 4 Through 8



NCEE 2012-4055 U.S. DEPARTMENT OF EDUCATION





Access Unit 9 Instruction

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1. *Enter Unit 9 by clicking* Contents from the toolbar. *Click* Bookmarks.

Click on Enter Unit 9 Instruction.



2. Unit 9 begins with the Unit Opener.

TRANSMATH® REVIEWER GUIDE

Planning & Prep UNIT OPENERS

What are Unit Openers?

Every unit begins with a Unit Opener that links real-life experiences or real-world context—careers, sports, phenomena, etc.—to introduce math skills and promote discussions.

Why are Unit Openers important?

Unit Openers help teachers set the expectations and goals for the class while engaging students with intriguing, age-appropriate subjects that help them relate math to their own life.

Teacher Note (pg. 1002):

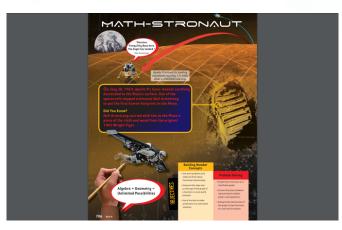
Background information is presented to the teacher as an optional resource to further explore the subject presented.

Student Note (Bottom thumbnail):

The Unit Opener is presented in a highly visual format with introductory information about the subject and how it relates to the *TransMath* unit.



1. On Page 1002, *review the Unit Opener. Click on* Student Page icon.





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TRANSMATH® REVIEWER GUIDE

Planning & Prep UNIT & LESSON OBJECTIVES

What are the Unit & Lesson Objectives?

The Unit & Lesson Objectives provide an at-a-glance view of the instructional objectives for each strand with details about how these objectives will be accomplished.

Why are the Unit & Lesson Objectives important?

The objectives pages provide teachers with a "birds-eye view" of the unit to understand the purpose of the dual topics and the steps/materials needed to teach them. In addition, it helps establish the pacing of the unit as a whole and lesson-by-lesson to properly plan.

Note on Unit Objectives (pg. 1003):

Unit vocabulary is listed with a link to the teacher glossary. Teachers have the option of pre-teaching vocabulary to get students acquainted with these terms.

Note on Lesson Objectives (pgs. 1006 and 1007):

Sometimes a lesson concentrates on only one strand of the dual topics in order to provide extended instruction for more complex skills and standards. Along with the instructional objectives of each lesson, an assessment schedule is provided in blue.

Problem Solving: Working with Coordinat	e Graphs
Building Number Concepts	Problem Solving
- Use word presents and tables the kinet functional relationships: - How the short functional relationships: - How the short function is the short function in a real word struction. - Low the structure is the short function is a real word struction. - Constants - Constants	The Problem Solving strand begins with a brief review of coordinate graphs of the which the solution in the solution of the so
se unclear, especially if functions are presented only through symbols and graphs. This unit uses word problems, tables, and symbols to present an ntegrated treatment of the topic.	graphing and transforming simple two-dimensional shapes on the graph. The majority of this unit involves the connection of functions as lines on graphs to word problems, tables, and symbols.
Unit Vocabulary	Unit Vocabulary
function graphicalitic relationship graphicality and the second dependent variable slope run risa positive slope negative slope rut of cope slope inter of cope slope inter of cope slope inter of cope	coordinates coordinates coordinates a coordinates a coordinates a coordinates a coordinates a coordinates a coordinates a coordinates translates the of symmetry reflects

Turn to page 1003, for

Unit Objectives.

Lesson Objectiv					
ulding Number Concepts: ntroduction to Functions			Problem Solving: >Working with Coordinate Graphs		
	Lesson	Lesson Objectives-Students will:	Lessen Objectives-Students will:	Assessment	
	1	Define the functional relationship between input and output.	 Identify the coordinates of points on a coordinate graph. 		
	2	Put values into function tables to analyze relationships.	 Translate shapes on a coordinate graph. 		
3 4 5		Analyze graphs to describe the relationship between variables.	Reflect shapes on a coordinate graph.		
		Use tables and graphs to analyze functional relationships in everyday data.			
		Examine the data in an x/y table. Write functions based on the relationship between x and y.		Quiz 1	
	6	Write functions algebraically.	Graph functions on coordinate graphs.		
	7	Determine the slope of a line.	Use the slope to draw lines.		
8 - And		Analyze different kinds of slopes.	 Identify the function represented by a graph. 		
	9	Solve rate of change problems.	Examine the advantages of using lines to make comparisons.		
	10	Analyze graphs of linear functions that do not go through the origin.		Quiz 2	
	11	Use the slope-intercept form to draw a function on a coordinate graph.	Graph linear equations.		
	12	Use algebraic equations to solve word problems.	Use linear functions and algebraic equations to solve problems.		
	13	Create x/y tables from graphs.	 Find where the graphs of two functions intersect. 		
	14	Create equations from a graph.	Use functions to figure out the better deal.		
	15	Review Introduction to Functions concepts.	Review Working with Coordinate Graphs concepts.	Unit Raview	
	Unit Assessments	End-of-Unit Assessment		End-of-Unit Assessment Performance Assessment	
Init 9 - Lesson Objectives				Unit 9 - Lesson Obje	

2. Turn to page 1006 and 1007, to view Lesson Objectives.

TRANSMATH®

it 9 - Overview 1005

Planning & Prep UNIT OVERVIEWS

What are Unit Overviews?

Unit Overviews provide the background information regarding the skills, rationale, and tools that will help teach the unit.

Why are Unit Overviews important?

Unit Overviews break down the unit into three sections that highlight the what, why, and how of instruction:

Key Questions determine WHAT students need to know.

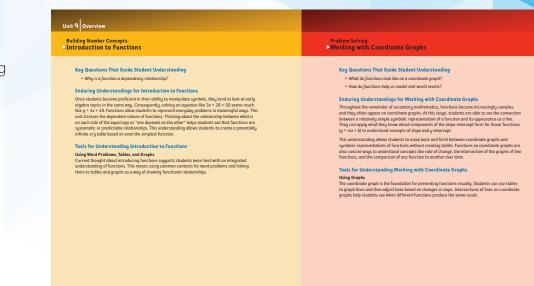
Enduring Understandings gives the reasoning for WHY students need to know each of the concepts being taught.

Tools for Understanding explains HOW the units help students understand and develop content.

Note the concepts taught in each topic

(pgs. 1004 and 1005):

The Building Number Concepts component of the lesson focuses on why a function is a dependent relationship in the problem solving component, the topics focus on helping students understand what functions look like on a coordinate graph and how functions help model real-world events.



1 Turn to page 1004 and 1005,

1004 Unit 9 - Overview

• to review the Unit Overviews.

TRANSMATH® REVIEWER GUIDE

Planning & Prep LESSON PLANNER

What are Lesson Planners?

Each lesson begins with a Lesson Planner which includes a summary of the four main sections of instruction: Skills Maintenance, Building Number Concepts lesson, Problem Solving lesson, and Homework.

Why are Lesson Planners important?

By outlining the objectives and instructional imperatives for each section, teachers can best manage class time and expectations.

Note on Lesson Planner (pg. 1008):

The color coding of each main section helps teachers visually organize the four main sections and the transitions between the lesson's instructional components. Notice this color code continues throughout the lesson.



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Planning & Prep TEACHER TALK TUTORIALS

What are Teacher Talk Tutorials?

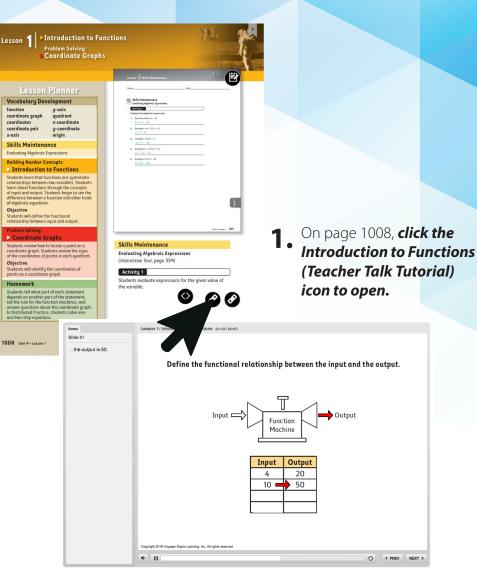
Linked at the start of each lesson, Teacher Talk Tutorials are interactive presentations of the initial concept of each lesson.

Why are Teacher Talk Tutorials important?

As a planning tool, the tutorials help teachers by modeling how the concept and skill should be presented in the lesson. These tutorials can also be utilized as an instructional support/model during instruction.

Note on the Teacher Talk Tutorials:

Once you click the icon, the tutorial automatically begins. Scan down to see the controls that allow teachers to move between slides and control the volume (see bottom image).





Teacher Talk Tutorials pop up in a new browser window so teachers can easily return to the eBook.

TRANSMATH®

Instructional Design SKILLS MAINTENANCE

What are Skills Maintenance activities?

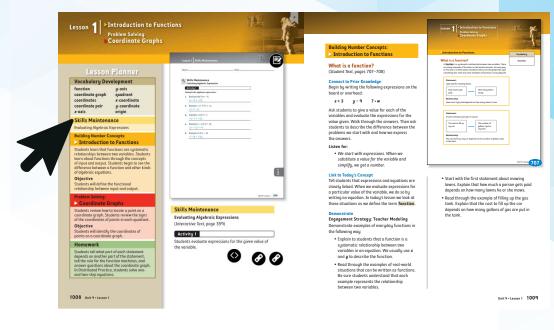
Every lesson begins with a Skills Maintenance activity, which is a quick five-minute class starter to help students prime their thinking, practice previously taught skills, and reinforce instruction.

Why are Skills Maintenance activities important?

Skills Maintenance activities allow the distribution of practice, reinforcing previously taught skills that might otherwise be forgotten. This routine activity allows students to receive the repeated practice and feedback that they need to solidify foundational skills.

Note on Student Page Thumbnail (pg. 1008):

The student page in the Teacher Guide includes the correct answers for the activity.



1. *Turn to page 1008,* to view the skills covered in Skills Maintenance.

TRANSMATH®

Instructional Design CLICK-THRU PRESENTATION

What are Click-Thru presentations?

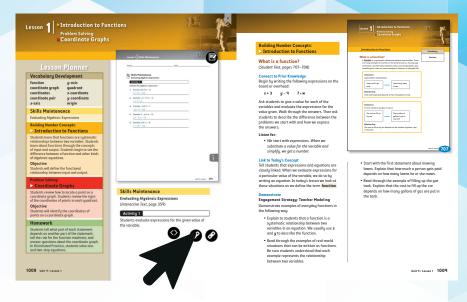
The Click-Thrus are PowerPoint presentations of the lesson. Teachers can download the presentation, customize or add slides, and use to deliver instruction.

Why are Click-Thru presentations important?

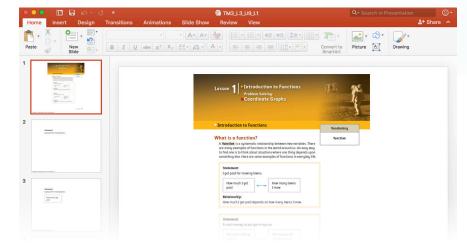
Teachers already are busy. They don't need the burden of creating tools to help teach. *TransMath* includes a Click-Thru presentation for every lesson. Teachers can use the Click-Thru to model, demonstrate, and share the concepts and skills taught in the lesson following the lesson format.

Note on Click-Thru Presentations:

Not only do these presentations support the teacher during instruction, they empower teachers to customize their instructional delivery to suit their needs and the needs of their students. Additional information, images, or practice can all be saved in one location for ease of use.



Turn to page 1008 and click the Introduction to
 Functions (Click-Thru) icon, to download.



2. Once downloaded, teachers can open and edit the file to suit their needs.



Instructional Design **BUILDING NUMBER CONCEPTS**

What are Building Number Concepts?

Building Number Concepts are the first half of the dual topics. They focus on developing students' knowledge of number concepts and skills through guided practice and visual models and representations.

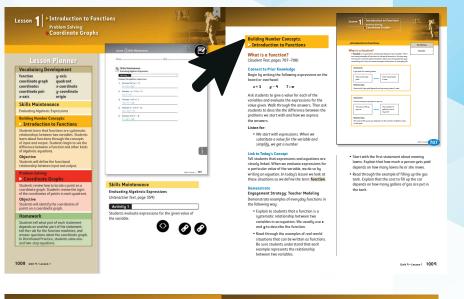
Why are Building Number Concepts important?

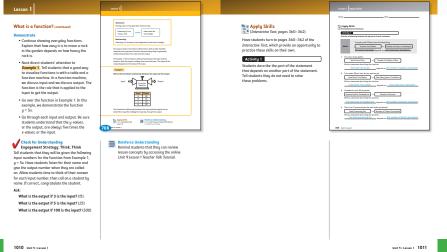
Students who lack foundational or prerequisite skills struggle to meet the expectations and rigor of grade-level MAFS standards. Building Number Concepts reinforce that foundational knowledge for students to achieve grade-level proficiency.

Note on Conceptual Understanding:

Many students know "how" to reach a correct answer by using the right procedure, but they don't have the conceptual understanding to know "why." These students consistently struggle with word problems and writing about math.

Turn to pages 1009–1011, for the Building Number Concepts.





Instructional Design **PROBLEM SOLVING LESSONS**

What are Problem Solving lessons?

Problem Solving lessons are the second half of the dual topics. They focus on introducing new skills and standards with a greater emphasis on collaborative and small-group work.

Why are Problem Solving lessons important?

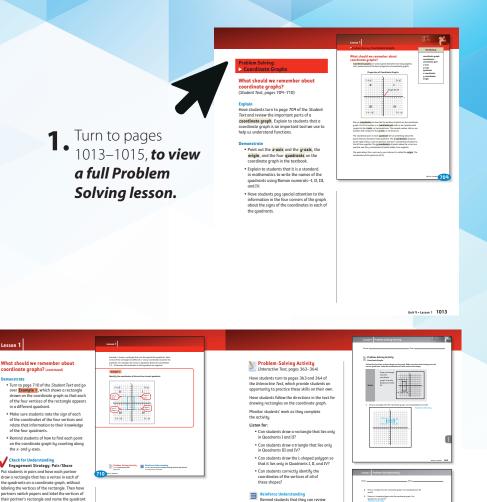
Students must be proficient in grade-level standards and prerequisite skills to be ready for success in algebra. Problem Solving lessons help make that connection and allow students to apply the key foundational skills they have learned to more rigorous, grade-level activities.

Note on Students:

After the teacher models the new skill, students are given more opportunities to work together. In this Problem Solving lesson, students interact in pairs with an engaging activity.

Note on Teachers:

As students work in pairs, teachers have the freedom to monitor instruction and check students' understanding. In addition, notice the links for the Teacher Talk Tutorials and Click-Thrus for the Problem Solving lesson on page 1013.



₿

lesson concepts by accessing the online Unit 9 Lesson 1 Problem Solving Teacher

Unit 9 - Lesson 1 1015

TRANSMATH

REVIEWER GUIDE



eir partner's rectangle and name the quadrant at each vertex appears in. Ask pairs to present eir rectangles to the class.

force Understanding Remind students that they can revie esson concepts by accessing the online Init 9 Lesson 1 Problem Solving Teache

1014 Unit 9 - Lesson 1

TRANSMATH®

Instructional Design CONSISTENT FORMAT & DELIVERY

What is the Consistent Format & Delivery?

TransMath instruction is designed to be consistent to create an instructional routine and familiar structure for both teachers and students.

Why is the Consistent Format & Delivery important?

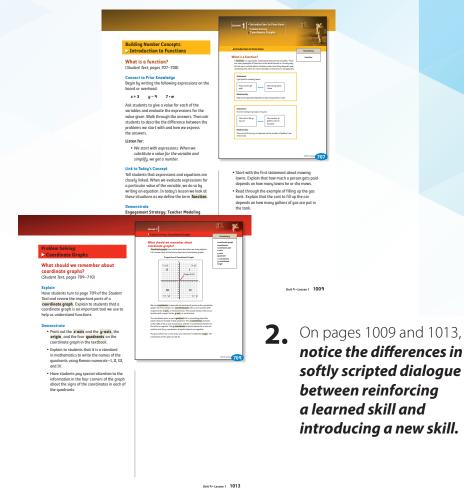
Introducing new instructional methods and teacher prompts can distract students from learning. The consistent format and delivery of *TransMath* allows teachers and students to avoid unnecessary distractions and focus on what is important instruction.

Note on Consistent Format (pg. 1009):

Titles highlighted in blue—demonstrate, explain, reinforce understanding—are repeated across all levels and provide a dependable format that promotes the ease of use for teachers.

Note on Consistent Delivery (pgs. 1009–1015):

Teacher Guides contain softly scripted language that guides teachers through the instructional delivery and allows room for flexibility and differentiation. Turn to page 1009, to see examples of consistent format.



TRANSMATH® REVIEWER GUIDE

Instructional Design VOCABULARY & FORMAL MATHEMATICAL LANGUAGE

What is Vocabulary & Formal Mathematical Language?

Teaching the language of math is supported in each unit through the introduction of new vocabulary terms and the consistent use of formal mathematical language.

Why is Vocabulary & Formal Mathematical Language important?

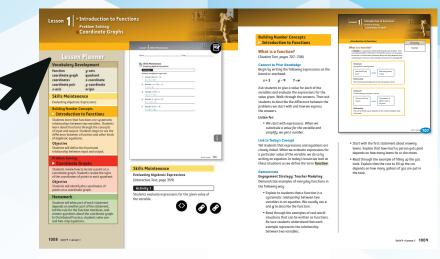
To meet the expectations of the MAFS standards, students not only need to be fluent in computational skills, but to write about math, they also need to be fluent in the language and vocabulary of math. These language and writing skills are taught explicitly throughout *TransMath*.

Note on Unit Vocabulary (pg. 1009):

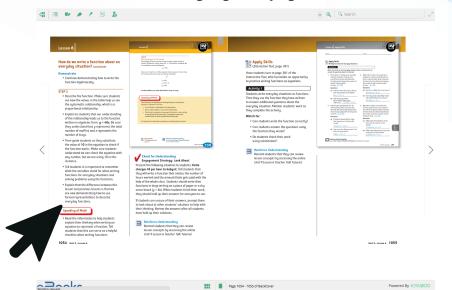
Unit Vocabulary is listed in full on the Unit Objectives page and highlighted whenever it is used in the teacher and student text.

Note on Mathematical Language (pg. 1054):

Many *TransMath* lessons include a section called Speaking of Math, which provides students with support when writing about their thinking.



1. On page 1008, review the vocabulary for the lesson and notice the highlight on page 1009.





View a Speaking of Math activity by **clicking on** Contents from the toolbar. **Click** Bookmarks. **Click on** Speaking of Math Example.

THING Edition TRANSMATH® REVIEWER GUIDE

Instructional Design PROBING QUESTIONS

What are Probing Questions?

The Building Number Concepts and Problem Solving lessons begin with a probing question to help frame what will be taught in the lesson.

Why are Probing Questions important?

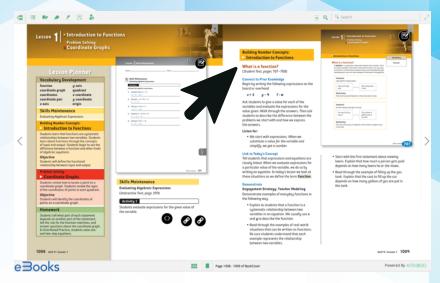
Probing Questions act as a transition tool for teachers. Students not only shift their focus to the skill being taught in the lesson, but they also are encouraged to recall the prerequisite skills related to the new skill.

Note on Building Number Concepts (pg. 1009):

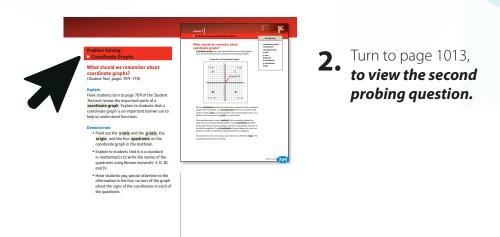
Teachers guide students to make connections to previously taught skills and link them to the current lesson.

Note on Problem Solving lesson (pg. 1013):

Teachers explain and demonstrate a new skill being taught in this lesson.



1 Turn to page 1009, **to view the first probing question.**



Unit 9 - Lesson 1 1013

Third Edition TRANSMATH® REVIEWER GUIDE

Instructional Design VISUAL MODELS & DIGITAL MANIPULATIVES

What are Visual Models & Digital Manipulatives?

Visual Models and Digital Manipulatives enable students to break down complex processes into simple steps and move from concrete visual representations to more abstract understanding.

Why are Visual Models & Digital Manipulatives important?

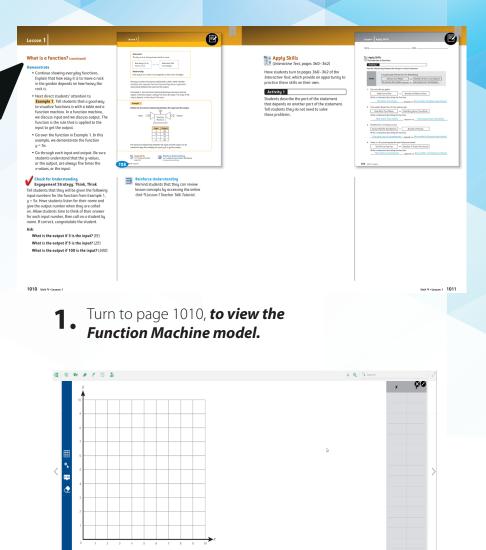
By replacing long text explanations and providing concrete representations of challenging concepts, the Visual Models and Digital Manipulatives simplify and enrich instruction to increase a student's depth of knowledge, engagement, and rate of proficiency.

Note on Building Number Concepts (pg. 1010):

Teachers use a Function Machine as a visual model to support students' understanding of functions and the relationship between two variables in an equation.

Note on Problem Solving lesson (pgs. 1013 and 1014):

Teachers can use the Coordinate Plane digital manipulative (link found on page 1008) to enhance the instruction on coordinate graphs.



2.

On page 1008, *click the open Coordinate Plane icon.* Use the table on the right side to enter an input and output variable.

TRANSMATH® REVIEWER GUIDE

Instructional Design ENGAGEMENT STRATEGIES

What are Engagement Strategies?

Four recurring Engagement Strategies are embedded in each lesson to encourage student discussion and active participation.

Why are Engagement Strategies important?

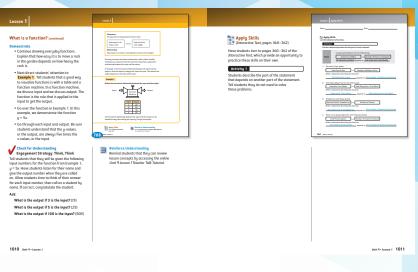
Engagement Strategies allow teachers to informally assess student learning and prescribe solutions for immediate support if needed.

Note on Building Number Concepts (pg. 1010):

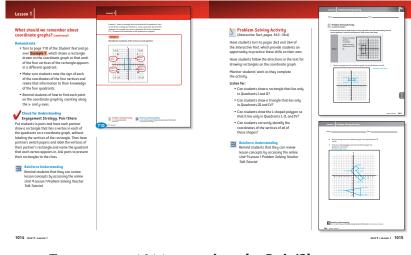
Teachers employ the "Think Think" strategy, which has students stop, reflect, and respond to the whole group.

Note on Problem Solving lesson (pg. 1014):

Teachers employ the "Pair/Share" strategy wherein students work in pairs and present results to the whole group.



Turn to page 1010, to review the Think Think Engagement Strategy.



Turn to page 1014, to review the Pair/Share Engagement Strategy.

Third Edition TRANSMATH® REVIEWER GUIDE

Instructional Design CHECK FOR UNDERSTANDINGS

What are Check for Understandings?

In the Apply Skills, Watch For and Listen For"sections, teachers are given the opportunity to monitor student understanding, and the Teacher Guide includes common misconceptions to identify.

Why are Check for Understandings so important?

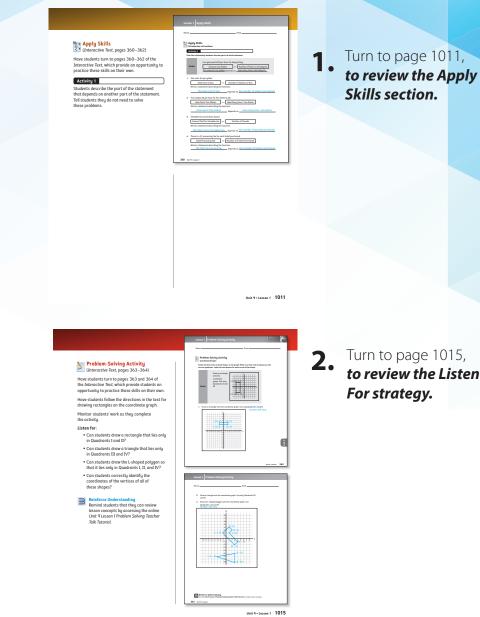
Teachers can easily identify students who are struggling and provide additional instruction as needed.

Note on Building Number Concepts (pg. 1011):

The Apply Skills section has students work independently while teachers monitor understanding of key concepts.

Note on Problem Solving lesson (pg. 1015):

The "Listen For" strategy provides examples of common misconceptions related to the problem-solving activity.



THIR ANSMATH®

Instructional Design HOMEWORK

What is the Homework component?

Homework is a daily reinforcement of the newly learned skills by way of out-of-class practice and a distributed practice activity of skills and concepts learned in previous lessons.

Why is the Homework component important?

Students have the opportunity to work on their own, revisit the skills learned from the day's lesson, and practice previously taught skills. Once submitted, teachers have an additional way to identify strengths and weaknesses in student learning.

Note on Homework assignment (pgs. 1016 and 1017):

There are four skills covered in this assignment that reinforce the day's lesson:

Activity 1: Practicing the connections and dependencies within statements found in word problems as reinforced in Lesson 1.

Activity 2: Using the Function Machine from Lesson 1.

Activity 3: Labeling a coordinate graph.

Activity 4: Solving 1- and 2-step equations.

Lesson 1	tense 1 (17.4) Hansesck		tena 1
Homework Ge over the instructions on pages 711–713 of the Student Text for each part of the homework. Letting 1 Students tail what part of each statement depoids on what schep part of the statement depoids on what schep part of the statement Letting 1 Students statil the rule for the function machines. Letting 1 Students statement questions about the conditioned pages to be statement to be statement of the statement statement of the statement of the statement of the Students answer questions about the conditioned the pages to be statement of the statement of the statement statement of the statement of the statement of the statement of the statement of the statement of the statement statement of the stateme		Homework Ge over the instructions on page 713 of the Student Tar for the homework. Activity 4 - Distributed Prototice Students solve one - and two-step equations.	Image: Second
	The second secon		7B
1016 - Solit 4-Lansan 1	i hogo Wang (Sang Sang Sang Sang Sang Sang Sang Sang		Unit-Leasen 1 1017
1 Turn to r	pages 1016 and 1	017, to view the	

 Turn to pages 1016 and 1017, to view the Homework component.

INSTRUCTION & PEDAGOGY

FRANSMATH[®] REVIEWER GUIDE

Instructional Design **ON-TRACK! EXTENSION ACTIVITIES**

What are On-Track! Extension Activities?

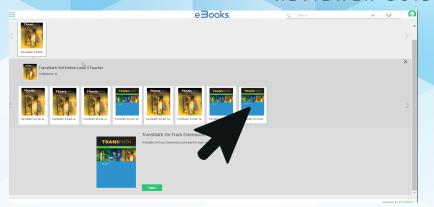
For each unit guiz or end-of-unit assessment, there is a corresponding Extension Activity designed for small groups. Students who have demonstrated proficiency work in a student-led group and struggling students work in a teacher-led group for additional support.

Why are On-Track! Extension Activities important?

Extension Activities are designed to challenge students and prepare them for the FSA through multistep word problems.

Note on the Unit 9 Extension Activity:

Notice the focus on process where students are successfully developing problem-solving strategies, explaining their decisions, and checking their solutions.



From the eBookshelf, click on the Transmath On-Track! Extension Activities book (last blue book) and click open.

	Ξ 4 <u>9</u> farsh / 2 [*]	
Docenario Boolenario Page 101 de 101/101 di autoritori Unit 12 Economico Activity	TRANSMATH	
	On-Track1 Extension Activities	
	₫ <u>₩₩₩₩₩</u>	_
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then Bookmarks, then Unit 9.	Multi-Enteringto Data Subality Multi-EnteringtoData Subality Multi-EnteringtoData Subality Multi-Enterin	
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3.

Activities related to Unit 9.



Assessments & Reports

The comprehensive *TransMath* assessment system allows teachers to accurately measure student progress and proficiency at every stage of instruction. With a variety of reports available, teachers and administrators have actionable data that can be used to drive instructional decisions, communicate progress to parents, and ensure students meet their goals.

Take a look at each assessment students, reports teachers can generate, and the overall purpose of monitoring.

TRANSMATH®

Baseline & Summative Assessments

What are Baseline and Summative Assessments?

The Baseline and Summative assessments are administered at the beginning and end of each year, respectively. Based on the *TransMath* level, each assessment measures six-nine topics. **These assessments can be administered online or paper/pencil. Reports are automatically available when assigned/administered online.**

Why are Baseline and Summative Assessments important?

The Baseline Assessment provides a starting point from which student growth can be measured in the Summative Assessment. With six-nine topics, teachers can determine a student's strengths and weaknesses at a more granular level.

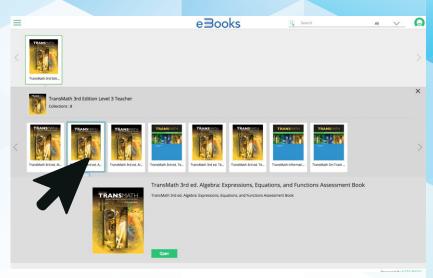
Note on Accessing eBook Version:

- **1** From the Teacher Center, return to the eBook bookshelf:
 - **Select and open** the *TransMath* 3rd ed. Algebra: Expressions, Equations, and Functions Assessment Book."

Once open, click Contents icon on toolbar.

Click Bookmarks.

Click on either baseline or summative assessment.



2. Assessment book is found in the eBook bookshelf.

Contents Bookmarks			
Page 101 01-82 AM 25 June 2018 End of Unit Assessment	Dote	Name Dote	
Page 87 0122 AM 25 June 2018 Unit 9 Quiz Page P1 0500 PM 23 June 2019		Port 3	
Summative Assessment (Progress Indicator)	(c) 13.26	Chaose the correct answer. 11. Which shows the inequality $n \ge 3$ on the number line?	
Page B1 08:50 PM 23 June 2018 Baseline Assessment	(c) 41.34	(a)	
	(c) ==== (c) ====================================	00 = 12 3 4 5 6 7 8 9 10	
	(c) 2.1	0 1 2 3 4 5 6 7 8 9 10 12. Which shows the double inequality 1 < g ≤ 5 on the number line?	
	(4) 82		
	42 <u>13</u>	(h)	
	40 1 ¹ / ₂	(c) 0 1 2 3 4 5 6 7 8 9 10 13. Which inequality describes the graph on the number line?	
	specific coses.	0 1 2 3 4 5 6 7 8 9 10	
	0-2	(a) w>5 (b) w≥5	
		 (d) w < 6 14. Which inequality describes the graph on the number line? 	
	-7 = -7 + -5		
		(b) z≤2 (c) z≤2	
Equipule 20% impacts and a second second	Bearline Assessment B1	Copyright 2016 Topping Topping Statement, Soc. All rights reserved.	ment B2

3. Locate the Baseline Assessment on page B1 and B2.

TransMath Quizzes

What are TransMath Quizzes?

Each *TransMath* unit has one or two quizzes (depending on number of lessons in unit) that are designed to assess key skills, procedures, and conceptual knowledge. **All quizzes can be administered online or paper/pencil. Reports are automatically available** when assigned/administered online.

Why are TransMath Quizzes important?

Frequent, brief assessments provide crucial, timely data for teachers to make instructional decisions for students mid-lesson. In addition, teachers can use the quizzes as a graded exercise.

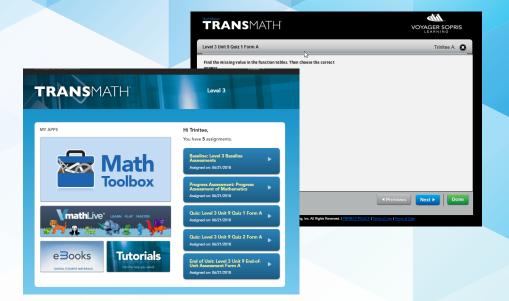
Note on Accessing eBook Version:

1. In the *TransMath* 3rd ed. Algebra: Expressions, Equations, and Functions Assessment Book:

Click Contents icon on toolbar.

Click Bookmarks.

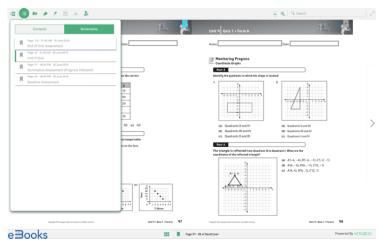
Click on Unit 9 Quiz.



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When teachers assign quizzes online, students can access them directly from the Student Center.



Unit 9 TransMath Quizzes in eBook.



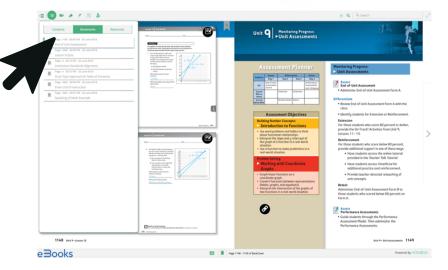
End-of-Unit Assessments

What are the End-of-Unit Assessments?

End-of-Unit Assessments encompass all the skills and concepts taught in the unit. There are two forms for each assessment (Form A & B) allowing the teacher to test, differentiate, and retest students. **All quizzes can be administered online or paper/pencil. Reports are automatically available when assigned/administered online.**

Why are *TransMath* End-of-Unit Assessments important?

Like the quizzes, End-of-Unit Assessments collect data that is used to determine proficiency and to guide differentiation needs. T eacher Guide includes recommendations for differentiation based on student results.



Recommendations for differentiation found in the Teacher Guide.

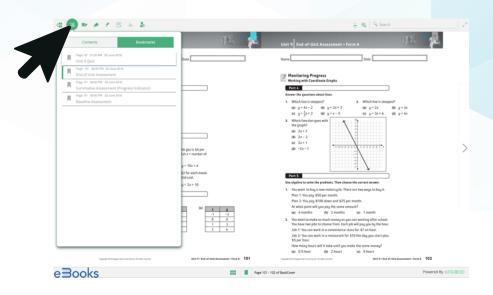
1 Note on Accessing eBook Version:

In the *TransMath* 3rd ed Algebra: Expressions, Equations, and Functions Assessment Book:

Click Contents icon on toolbar.

Click Bookmarks.

Click on Unit 9 End-of-Unit Assessment.



2. Starting on page 101, view Form A and Form B.

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Performance Assessments

What are Performance Assessments?

Performance Assessments are an additional tool to assess student reasoning and problem solving after each unit. They require students to to communicate their thinking through words, drawings, and the use of symbols.

Why are Performance Assessments important?

Performance Assessments provide scaffolded support for students as they learn to solve complex problems, use mathematical language, and explain their thinking. They also are used as an effective prep tool for the FSA.

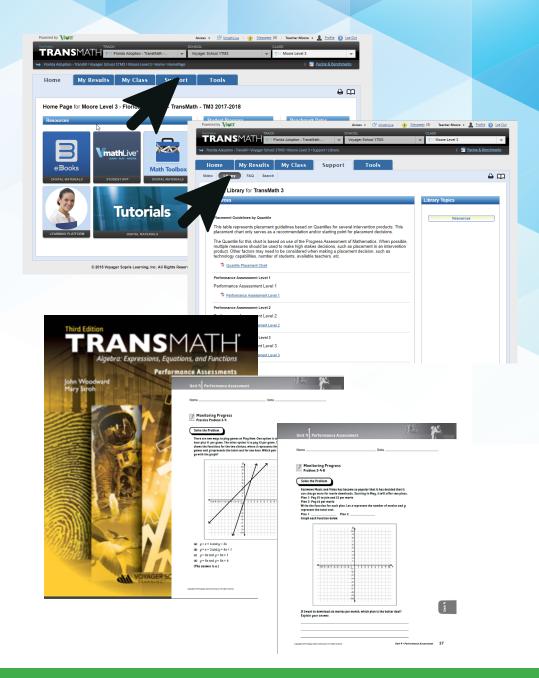
Note on Accessing eBook Version:

- 1 Performance Assessments can be downloaded from the
- Teacher Center by:

Clicking on the Support tab.

Click on the Library subtab.

Scroll down and click on the Performance Assessment Level 3 document to download in a printable PDF.



TRANSMATH®

Progress Assessments of Mathematics

What are Progress Assessments of Mathematics?

TransMath utilizes the Progress Assessment for Mathematics (PAM) powered by The Quantile Framework[®] as a benchmark assessment that can be **administered online or paper/pencil** three times a year. Reports are automatically available when assigned/administered online.

Why are Progress Assessments important?

The PAM assessment assigns students a Quantile score. Like lexiles in reading, a Quantile represents a student's range of skills and readiness for learning new skills. As a benchmark assessment, the PAM is used to determine student proficiency during the course of the year.

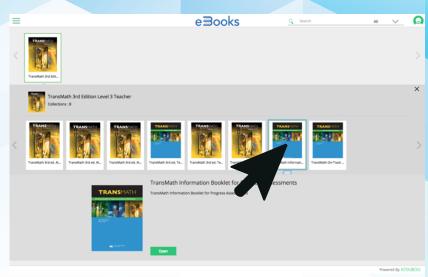
Note on Accessing eBook Version:

- Print versions of the PAM are in the Informational
- Booklet for Progress Assessments of Mathematics, which can be found in the eBook bookshelf.

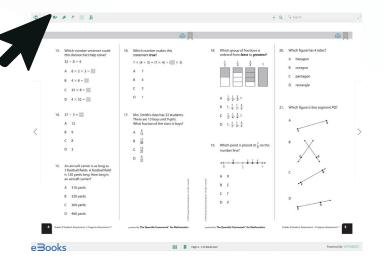
Once opened, **click on** the Contents icon on toolbar.

Click on Bookmarks.

Click on Grade 8 Progress Assessment.



Information Booklet for Progress Assessments of Mathematics.



Grade 8 Progress Assessment of Mathematics in print form

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Viewing Reports

All reports are conveniently stored in our data management system and easily accessed from the Teacher Center. Depending on the need and user, reports can be viewed from a district average level down to an individual student level.

To view the reports from the Teacher Center: *Click on* the My Results tab. *Click on* the Key Measures"subtab (default starting location).
Click on the Category scroll down menu. *Choose an assessment to view.*



Often, the PAM is the default report when entering the key measures.

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Report Examples

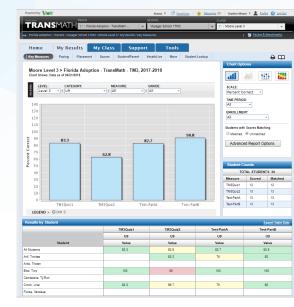


Baseline & Progress Indicator

(Summative) Report shows students' strengths and weaknesses in the six-nine skill topics assessed (based on *TransMath* level).

Topics Assessed

Part	Level 1	Level 2	Level 3			
1	Operations with whole numbers	Operations with positive rational numbers	Operations with positive rational numbers			
2	Estimating with whole numbers	Converting fractions, decimals, and percents	Use variables to describe patterns			
3	Factors and multiples	Locate fractions, decimal numbers, and percents on a number line	Write and graph inequalities			
4	Fractions	Correct placement of the decimal point	Simplify numeric expressions using order of operations			
5	Geometry and measurement	Word problems with fractions and mixed numbers	Solve equations for a single variable			
6	Data and statistics	Properties of integers	Represent functions as a table, graph, or equation			
7		Operations with integers	Ratio, proportion, and rate			
8		Data and probability	Geometry and measurement			
9		Geometry and measurement	Data and probability			

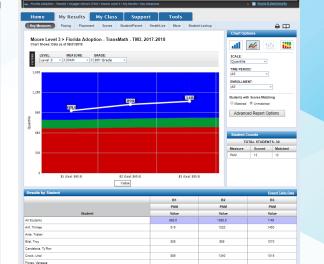


Unit Assessment Report shows

performance on both the Unit Quizzes & the End-of-Unit Assessments.

Progress Assessment Report (PAM)

shows proficiency in grade-level skills along with a Quantile score.



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Student Technology

Technology plays an integral role in teaching, but it must be used with purpose to be effective. Students in *TransMath* have access to robust digital resources designed to enrich instruction, extend learning, and engage students in and out of the classroom.

Take a look at how technology enhances the *TransMath* experience wherever and whenever students need it.

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Log in to the TransMath Student Center

- 1. *Click on Enter the Student Center* from the Adoption Review site to begin.
- 2. Please note Voyager Sopris Learning offers single sign-on integrations to simplify accessibility and interoperate with pre-existing district technologies.

Enter the username and password below to enter the *TransMath* Student Center site.

Username: thomast723 Password: graysurf3





Third Edition TRANSMATH® Welcome, Florida Math Adoption Reviewers!

TransMath® is a unique pre-algebra program. Traditional core pre-algebra programs are built with algebra readiness as the goal. However, many students struggle to be successful in these courses due to a lack of foundational skills. TransMath shares the goal of algebra readiness but is designed with a specific emphasis on conceptual understanding for strugging math students (in Fondia, Levels 1 and 2). With Its unique dual-topic instructional approach and assortment of differentiation tools, TransMath delivers rigorous, standards-based instruction to prepare students for success in algebra while also providing the foundational skill instruction needed to fill gaps in knowledge. TransMath is an intensive core with the instructional supports to get students back on track with their peers and ready for algebra success.





DOWNLOAD THE REVIEWER GUIDE We have created a comprehensive Reviewer Guide with step-by-step instructions for the digital review process. Please download and have this guide available before you begin to review.



WATCH OVERVIEW VIDEO Please watch this brief overview video to get an introduction to TransMath before beginning your exploration.



MAFS ALIGNMENT & OTHER RESOURCES We have provided the following resources online to support your review of the materials.

Alignment to MAFS • Publisher Questionnaire UDL Questionnaire • System Requirements Bid Details



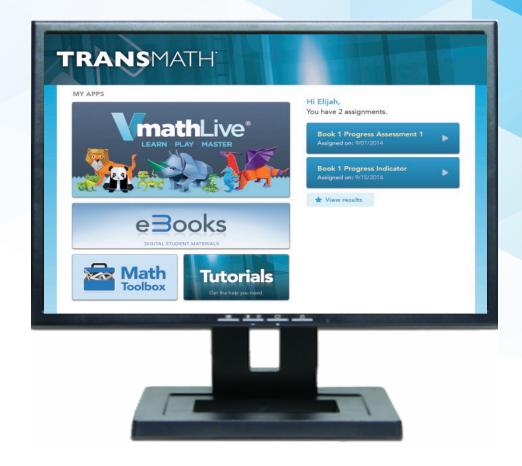




Student Center Overview

The Student Center is the landing page from which students can access all digital materials and resources used in *TransMath* including:

- **1. Student Assignments:** Any assignments or assessments a teacher has scheduled for the student will appear here.
- 2. VmathLive: Provides entry into the student technology.
- **3. eBooks:** Includes digital versions of the print and digital-only books.
- **4. Math Toolbox:** Contains all digital manipulatives used in instruction.
- 5. Tutorials: Contains all Teacher Talk Tutorials and Click-Thrus.



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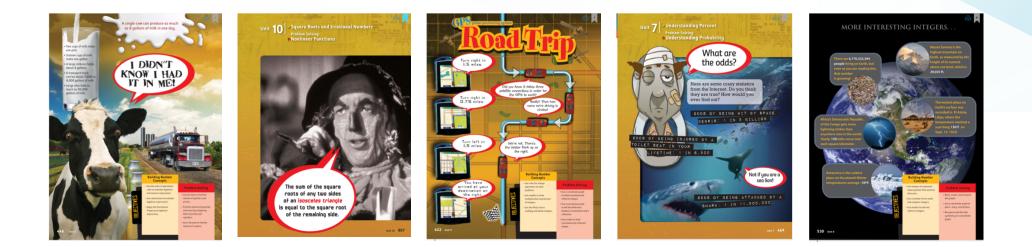
Student Center eBooks

What are eBooks?

The eBooks are digital, interactive versions of the Student Text and Interactive Text that are included in print format as well.

Why are eBooks important for students?

Through the eBooks bookshelf, students have 24/7 access to all the materials needed for the *TransMath* course. The eBooks include interactive tools and capabilities students need to highlight, notate, search, and submit for review any work completed online. In addition, teachers can mark up and return any submitted work online.





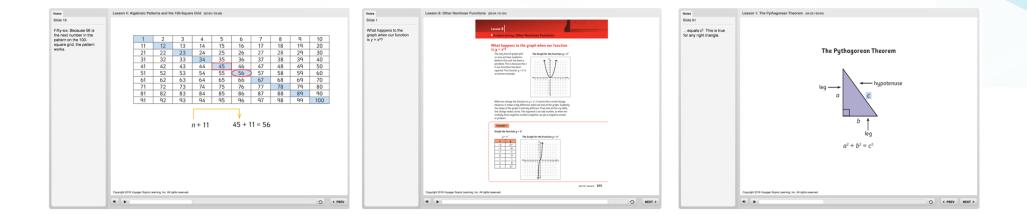
Student Center TUTORIALS

What is the Tutorials section?

The Tutorials section contains Teacher Talk Tutorials and Click-Thrus from every lesson. These videos and presentations reinforce lessons using effective narration and animated visual models to concretely develop the concept.

Why are Tutorials important for students?

With the Tutorials section, students have 24/7 online access to revisit and relearn the lessons taught in class. The videos and presentations are invaluable tools for students in need of differentiation, students who missed a day's lesson or were sick, students wanting a refresher on a previously learned skill, and any situation that could put a student at risk of falling behind.



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Student Center **MATH TOOLBOX**

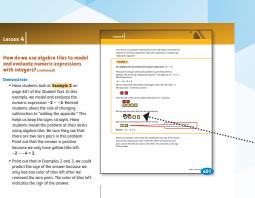
What is the Math Toolbox?

The Math Toolbox contains all the digital manipulatives used in *TransMath* instruction to break down complex processes and difficult concepts. Students are able to work through instruction or re-create lesson models with tools such as algebra tiles, Cuisenaire rods, coordinate planes, and more.

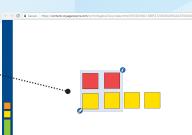
Why is the Math Toolbox important?

Digital manipulatives included in the Math Toolbox not only help with lessons, but also enable students to expand and explore these concepts beyond the classroom instruction to move from the concrete to the abstract.





572 Unit 5 - Lesson 4



* Apply Skills (Interactive Text, pages 159–160) Have students turn to pages 159 and 160 of the Interactive Text, which provide students an opportunity to practice writing algebraic expressions for patterns in the 100-square grid. Activity 1 ents use a variable and write an expressio for patterns in 100-square grids. Tell students they are to look at the gray squares in the arid when they describe the patterns. Monito students' work as they complete the activity Watch for: Can students identify the pattern represented in the 100-square grid Can students identify the variable portion of the pattern and the constant portion of the pattern? Can students write the correct e that describes the pattern? Remind students that they can review lesson concepts by accessing the onli Unit 4 Lesson 4 Teacher Talk Tutorial. 13 54 55 56 57 5 13 66 45 66 47 6 Ileit 4 a Lesson 4 463

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VmathLive Technology

What is VmathLive?

VmathLive is an online, independent-learning component that helps students apply math skills in a fun, interactive environment available anytime and anywhere on any device.

Why is VmathLive important?

VmathLive engages students with online opportunities to improve their math skills in conjunction with *TransMath* instruction or as an additional differentiation and enrichment tool.

1 Accessing VmathLive:

From the Student Center: **Click on** the VmathLive section. **Click on** Course Map in the toolbar to review units. Students will gain access to the Go Learn and Go Play components from the homepage.



VmathLive homepage–both Go Learn and Go Play components are accessed from here.



VmathLive Course Map gives an at-a-glance view of units.

VmathLive Design: GO LEARN COMPONENT

What is the Go Learn component?

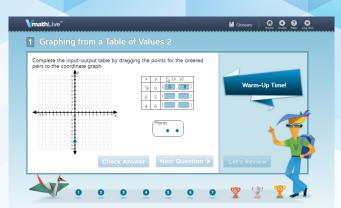
In *VmathLive's* Go Learn component, students complete module activities in computational practice and problem solving. The problem-solving activities are presented as a word problem and allow students to apply what they have learned.

Why is the Go Learn component important?

Moving from conceptual understanding to application is difficult for students. *VmathLive* provides an opportunity for students to practice and master problem-solving skills.

Note on Mastery of Skills:

Students are required to pass a module test before moving to the next module. All results are available to teachers in the data management center.

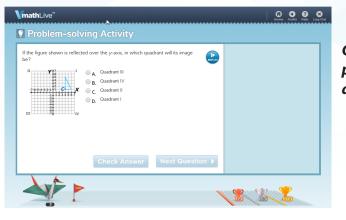


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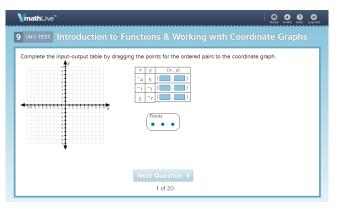
Go Learn practice activity

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Go Learn problem- solving activity





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VmathLive Design: GO PLAY COMPETITION COMPONENT

What is the Go Play Competition Component?

Go Play provides students an opportunity to practice their fluency and mental math skills in one-minute competition games.

Why is the Go Play Competition Component important?

Fluency and accuracy of mathematical skills are critical for student success. Using a fun, interactive, and safe platform, students can practice these skills and engage in the competitive spirit. Games range in topics from operations of whole numbers to order of operations.

Note on the Competition Component:

Students can play against the computer, a friend, or in a game with others. All assignments must be completed prior to competing.



Students track their own progress.



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VmathLive Design: SCAFFOLDED INSTRUCTION

How does VmathLive scaffold instruction?

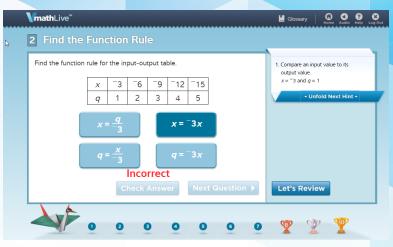
VmathLive offers several levels of scaffolded support for students as they work in Go Learn.

Why is the scaffolded instruction important?

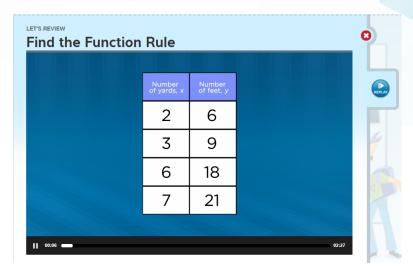
VmathLive promotes accuracy and fluency by encouraging students to think about their choices. If students get stuck, they can access a hint to see the problem unfold. If students continue to struggle, they have access to "Let's Review," a short video providing guided instruction on a related problem.

Note for Spanish-Speaking Students:

Let's Review audio is available in Spanish and English.



Students get immediate corrective feedback.



Let's Review video provides additional instruction.

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VmathLive Support Tools: ANIMATED GLOSSARY

What is the Animated Glossary?

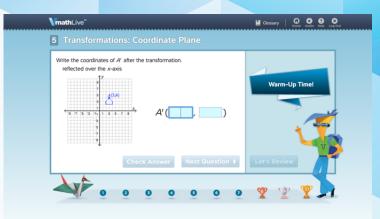
The Animated Glossary is embedded in the Go Learn components and contains approximately 400 common math vocabulary terms and definitions. Students can select a term from the alphabetical list or type it into the search function.

Why is the Animated Glossary important?

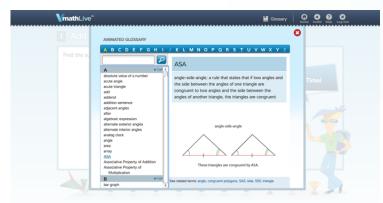
The language of math is often challenging and confusing. *VmathLive's* Animated Glossary allows students to hear the pronunciation and definition of a term while watching an animated representation of the term.

Note for Spanish-Speaking Students:

Animated Glossary allows students to view written and hear audio definitions of terms in Spanish.



Link to the Animated Glossary in the toolbar of the Go Play component.



Search by name of term or from the alphabetized list of terms.

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VmathLive Support Tools: ENGAGEMENT FEATURES

What are the Student Engagement features?

From the *VmathLive* homepage, students have a variety of ways to stay motivated and engaged.

Avatars: Students earn an avatar when they achieve mastery in a module. *VmathLive* avatars are origami creatures students can decorate and personalize using tokens they have earned. Each avatar includes instructions about building the avatar on their own with paper. **My Progress:** This page details how the student is doing in the program for both the Go Learn and Go Play components.

Achievements: This page contains every accomplishment a student has achieved—trophies and badges earned, certificates awarded, and avatars collected.

Leaderboard: This board allows students to see their rank in their school, districts, and nationally.

MYF	PROGRESS			Lei	arn	Play	Time
1	10 of 10 activities	₽₽₽₽₽₽₽₽₽ Whole Numbers	21 DAYS	5 hrs 20 min		15,500	90 ⁵ TEST (3 TRIE
2	12 of 12 activities	ዋዋዋዋዋዋዋዋዋዋዋ Adding and Subtracting Whole Numbers	19 DAYS	4 hrs 46 min		10,220	80 ⁴ TEST (1 TR
3	23 of 23	፝ኇቑኇኇኇኇኇኇኇኇኇኇ Multiplying and Dividing Whole Numbers	20 DAYS	6 hrs 04 min		12,495	90 TEST [2 TRIE
4	14 of 14 ACTIVITIES	ŦŦŦŦŦŦŦŦŦŦŦŦŢŢ Decimals	18 DAYS	4 hrs 59 min		13,890	
5	2 of 13	TT Number Theory and Fractions	6 DAYS	22 min		865 TOTAL POINTS	
6	10 activities	Geometry					
7		Measurement					

My Progress page shows current and past activity.



See all trophies and awards in Achievements.



All avatars can be customized by students.



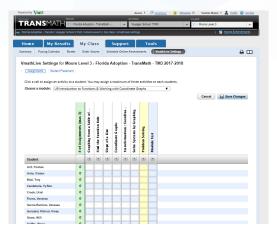
VmathLive Support Tools: DIFFERENTIATION CAPABILITIES

How can VmathLive be used as a differentiation tool?

Teachers can place students in specific modules of instruction to reinforce or extend learning. Teachers also can assign specific activities within a unit.

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Thed Letter		TRACK					SCHOO)L				CLASS	
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	Assignments Student Pla	acement											
You can move students to any unit they have not yet completed.												Cancel Save	-
Hover over a unit heading to see the unit title.												Cancel Save	Changes
	Student	U1	U2	U3	U4	U5	U6	U7	U8	U9	U10		
	Arif, Trinitee	0	0	0	0	0	0	0	0	۲	0		
	Arita, Tristen	0	0	0	0	۲	0	0	0	0	0		
	Bilal, Troy	0	0	0	0	0	0	0	0	۲	0		
	Candelaria, Ty'Ron	0	0	0	0	۲	0	0	0	0	0		
	Crook, Uriel	0	0	0	0	0	0	۲	0	0	0		
	Flores, Vanessa	0	0	0	۲	0	0	0	0	0	0		
	Garcia Ramirez, Vanessa	0	0	0	۲	0	0	0	0	0	0		
	Gonzalez Xitimul, Vinay	0	0	0	0		0	0	0	۲	0		
	Grant, Will	0	0	0	0		0	0	0	۲	0		
	Griffin, Wryla	0	0	0	0		0	0	0	۲	0		
	Guillory, Xavier	۲	0	0	0	0	0	0	0	0	0		

Choosing which module a student needs.



Assigning specific activities is easy.



Students must complete assignments before having full access.

