

# M/J Foundational Skills in Mathematics Grade 7 Course Code: 1204000T7

## 2024-2025 Year at a Glance

Please use the code below to join the Schoology Collaborative Group for this course.  
*(Do not share code with students)*

**RXNS-9PDK-BZDQ9**

Middle Grades Math - Grades 6-8 Foundational Skills in Mathematics Collaborative Group



**MIAMI-DADE COUNTY PUBLIC SCHOOLS**  
**District Pacing Guide**  
**YEAR-AT-A-GLANCE**

M/J Foundational Skills in Mathematics 7

2024-2025

Course Code: 1204000T7

**Florida's B.E.S.T. Standards Mathematics**

**First Nine Weeks**

**45 Days**

**August 15, 2024 – October 18, 2024**

**Topic 1: Use Rational Number Operations**

08/15 – 09/16 (22 Traditional: 11 Block)

**Topic 2: Analyze and Use Proportional Relationships**

09/17 – 10/11 (18 Traditional: 9 Block)

<i>Lessons</i>	<i>Benchmarks</i>	<i>Lessons</i>	<i>Benchmarks</i>
<ul style="list-style-type: none"> <li>• MDIS: L74: Adding Integers</li> <li>• MDIS: L75: Subtracting Integers</li> <li>• MDIS: L76: Multiplying and Dividing Integers</li> <li>• 1-1: Write Rational Numbers in Equivalent Forms</li> <li>• 1-2: Add and Subtract Rational Numbers</li> <li>• 1-3: Multiply Rational Numbers</li> <li>• 1-4: Divide Rational Numbers</li> <li>• 1-5: Evaluate Expressions with Exponents</li> <li>• 1-6: Apply Laws of Exponents</li> <li>• 1-7: Solve Problems with Rational Numbers</li> </ul>	<ul style="list-style-type: none"> <li>• MA.7.NSO.1.1</li> <li>• MA.7.NSO.1.2</li> <li>• MA.7.NSO.2.1</li> <li>• MA.7.NSO.2.2</li> <li>• MA.7.NSO.2.3</li> </ul>	<ul style="list-style-type: none"> <li>• MDIS: M9: Equivalent Fractions</li> <li>• MDIS: M10: Equivalent Fractions and the Number Line</li> <li>• MDIS: M31: Equivalent Ratios</li> <li>• 2-1: Understand Proportional Relationships: Equivalent Ratios</li> <li>• 2-2: Describe Proportional Relationships: Constant of Proportionality</li> <li>• 2-3: Graph Proportional Relationships</li> <li>• 2-4: Use Proportional Relationships: Relate Customary and Metric Units</li> <li>• 2-5: Apply Proportional Reasoning to Solve Problems</li> </ul>	<ul style="list-style-type: none"> <li>• MA.7.AR.3.2</li> <li>• MA.7.AR.3.3</li> <li>• MA.7.AR.4.1</li> <li>• MA.7.AR.4.2</li> <li>• MA.7.AR.4.3</li> <li>• MA.7.AR.4.4</li> <li>• MA.7.AR.4.5</li> </ul>

**Topic 3: Analyze and Solve Percent Problems**  
**(Continued into next quarter)**

10/14 – 11/12 (20 Traditional: 10 Block)

<i>Lessons</i>	<i>Benchmarks</i>
<p><b><u>1<sup>st</sup> 9-Weeks Content</u></b></p> <ul style="list-style-type: none"> <li>• MDIS: M37: Understanding Percent</li> <li>• MDIS: M38: Relating Percents, Decimals, and Fractions</li> <li>• 3-1: Analyze Percents of Numbers</li> <li>• 3-2: Connect Percent and Proportion</li> </ul> <p><b><u>2<sup>nd</sup> 9-Weeks Content</u></b></p> <ul style="list-style-type: none"> <li>• 3-3: Represent and Use the Percent Equation</li> <li>• 3-4: Solve Percent Change and Percent Error Problems</li> <li>• 3-5: Solve Markup and Markdown Problems</li> <li>• 3-6: Solve Simple Interest Problems</li> </ul>	<ul style="list-style-type: none"> <li>• MA.7.NSO.1.2</li> <li>• MA.7.AR.3.1</li> <li>• MA.7.AR.3.2</li> <li>• MA.7.AR.4.5</li> </ul>

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**Florida's B.E.S.T. Standards Mathematics**

**Second Nine Weeks**

46 Days

October 21, 2024 – January 16, 2025

**Topic 3: Analyze and Solve Percent Problems**  
**(Continued from prior quarter)**  
 10/16 – 11/14 (20 Traditional: 10 Block)

**Topic 4: Write Algebraic Expressions in Equivalent Forms**  
 11/13 – 12/17 (20 Traditional: 10 Block)

<i>Lessons</i>	<i>Benchmarks</i>	<i>Lessons</i>	<i>Benchmarks</i>
<p><b><u>1<sup>st</sup> 9-Weeks Content</u></b></p> <ul style="list-style-type: none"> <li>• MDIS: M37: Understanding Percent</li> <li>• MDIS: M38: Relating Percents, Decimals, and Fractions</li> <li>• 3-1: Analyze Percents of Numbers</li> <li>• 3-2: Connect Percent and Proportion</li> </ul> <p><b><u>2<sup>nd</sup> 9-Weeks Content</u></b></p> <ul style="list-style-type: none"> <li>• 3-3: Represent and Use the Percent Equation</li> <li>• 3-4: Solve Percent Change and Percent Error Problems</li> <li>• 3-5: Solve Markup and Markdown Problems</li> <li>• 3-6: Solve Simple Interest Problems</li> </ul>	<ul style="list-style-type: none"> <li>• MA.7.NSO.1.2</li> <li>• MA.7.AR.3.1</li> <li>• MA.7.AR.3.2</li> <li>• MA.7.AR.4.5</li> </ul>	<ul style="list-style-type: none"> <li>• MDIS: K9: Order of Operations</li> <li>• 4-1: Write and Evaluate Algebraic Expressions</li> <li>• 4-2: Generate Equivalent Expressions</li> <li>• 4-3: Simplify Expressions</li> <li>• 4-4: Expand Expressions</li> <li>• 4-5: Write Equivalent Expressions</li> <li>• 4-6: Add Expressions</li> <li>• 4-7: Subtract Expressions</li> <li>• 4-8: Analyze Equivalent Expressions</li> </ul>	<ul style="list-style-type: none"> <li>• MA.7.AR.1.1</li> <li>• MA.7.AR.1.2</li> </ul>
<p><b>Topic 5: Solve Problems Using Equations and Inequalities</b>  <b>(Continued into next quarter)</b>                  12/18 – 01/27 (16 Traditional: 8 Block)</p>			
<i>Lessons</i>	<i>Benchmarks</i>		
<p><b><u>2<sup>nd</sup> 9-Weeks Content</u></b></p> <ul style="list-style-type: none"> <li>• MDIS: K27: Writing Addition and Subtraction Equations</li> <li>• MDIS: K28: Writing Multiplication and Division Equations</li> <li>• 5-1: Write Two-Step Equations</li> <li>• 5-2: Solve Two-Step Equations</li> </ul> <p><b><u>3<sup>rd</sup> 9-Weeks Content</u></b></p> <ul style="list-style-type: none"> <li>• 5-3: Solve Inequalities Using Addition or Subtraction</li> <li>• 5-4: Solve Inequalities Using Multiplication or Division</li> </ul>	<ul style="list-style-type: none"> <li>• MA.7.AR.2.1</li> <li>• MA.7.AR.2.2</li> </ul>		

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2024-2025

Course Code: 1204000T7

**Florida's B.E.S.T. Standards Mathematics**

**Third Nine Weeks**

**43 Days**

**January 21, 2025 – March 21, 2025**

**Topic 5: Solve Problems Using Equations and Inequalities (Continued from prior quarter)**

12/18 – 01/27 (18 Traditional: 9 Block)

**Topic 6: Represent and Interpret Data**

01/28 – 02/19 (16 Traditional: 8 Block)

<i>Lessons</i>	<i>Benchmarks</i>	<i>Lessons</i>	<i>Benchmarks</i>
<p><b><u>2<sup>nd</sup> 9-Weeks Content</u></b></p> <ul style="list-style-type: none"> <li>• MDIS: K27: Writing Addition and Subtraction Equations</li> <li>• MDIS: K28: Writing Multiplication and Division Equations</li> <li>• 5-1: Write Two-Step Equations</li> <li>• 5-2: Solve Two-Step Equations</li> </ul> <p><b><u>3<sup>rd</sup> 9-Weeks Content</u></b></p> <ul style="list-style-type: none"> <li>• 5-3: Solve Inequalities Using Addition or Subtraction</li> <li>• 5-4: Solve Inequalities Using Multiplication or Division</li> </ul>	<ul style="list-style-type: none"> <li>• MA.7.AR.2.1</li> <li>• MA.7.AR.2.2</li> </ul>	<ul style="list-style-type: none"> <li>• MDIS: N77: Finding Mean</li> <li>• MDIS: N78: Median, Mode, and Range</li> <li>• 6-1: Make and Interpret Circle Graphs</li> <li>• 6-2: Use Proportions to Make Predictions from Data</li> <li>• 6-3: Determine an Appropriate Measure of Center and Variability</li> <li>• 6-4: Interpret Measures of Center and Variability</li> <li>• 6-5: Draw Conclusions from Data</li> <li>• 6-6: Choose an Appropriate Graphical Representation for Data</li> </ul>	<ul style="list-style-type: none"> <li>• MA.7.DP.1.1</li> <li>• MA.7.DP.1.2</li> <li>• MA.7.DP.1.3</li> <li>• MA.7.DP.1.4</li> <li>• MA.7.DP.1.5</li> </ul>
<p><b>Topic 7: Understand Probability</b></p> <p>02/20 – 03/05 (12 Traditional: 6 Block)</p>		<p><b>Topic 8: Solve Problems Involving Geometry</b></p> <p>03/06 – 04/08 (18 Traditional: 9 Block)</p>	
<i>Lessons</i>	<i>Benchmarks</i>	<i>Lessons</i>	<i>Benchmarks</i>
<ul style="list-style-type: none"> <li>• 7-1: Understand Likelihood and Probability</li> <li>• 7-2: Understand Theoretical Probability</li> <li>• 7-3: Understand Experimental Probability</li> <li>• 7-4: Compare Theoretical and Experimental Probabilities</li> </ul>	<ul style="list-style-type: none"> <li>• MA.7.DP.2.1</li> <li>• MA.7.DP.2.2</li> <li>• MA.7.DP.2.3</li> <li>• MA.7.DP.2.4</li> </ul>	<p><b><u>3<sup>rd</sup> 9-Weeks Content</u></b></p> <ul style="list-style-type: none"> <li>• MDIS: N41: Area of Rectangles and Squares</li> <li>• MDIS: N45: Area of Triangles</li> <li>• 8-1: Derive and Apply Area Formulas for Quadrilaterals</li> <li>• 8-2: Area of Composite Figures</li> <li>• 8-3: Solve Problems Involving Circumference of a Circle</li> <li>• 8-4: Solve Problems Involving Area of a Circle</li> <li>• 8-5: Solve Problems Involving Scale Drawings</li> </ul> <p><b><u>4<sup>th</sup> 9-Weeks Content</u></b></p> <ul style="list-style-type: none"> <li>• 8-6: Find Surface Area of Cylinders</li> <li>• 8-7: Find Volume of Cylinders</li> </ul>	<ul style="list-style-type: none"> <li>• MA.7.GR.1.1</li> <li>• MA.7.GR.1.2</li> <li>• MA.7.GR.1.3</li> <li>• MA.7.GR.1.4</li> <li>• MA.7.GR.1.5</li> <li>• MA.7.GR.2.1</li> <li>• MA.7.GR.2.2</li> <li>• MA.7.GR.2.3</li> </ul>

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**YEAR-AT-A-GLANCE**

M/J Foundational Skills in Mathematics 7

2024-2025

Course Code: 1204000T7

**Florida's B.E.S.T. Standards Mathematics**

**Fourth Nine Weeks**

46 Days

April 01, 2024 – June 5, 2025

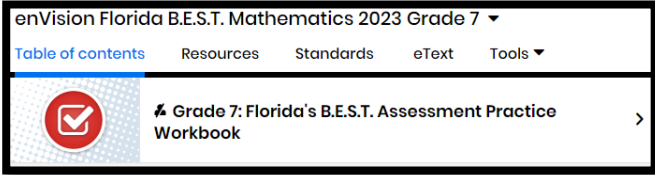
**Topic 8: Solve Problems Involving Geometry**

03/06 – 04/08 (18 Traditional: 9 Block)

**Topic 9 – F.A.S.T. Spiral Review**

04/09 – 04/29 (14 Traditional: 7 Block)

**F.A.S.T. PM3 Administration Window 05/01 – 05/31**

<i>Lessons</i>	<i>Benchmarks</i>	<i>Lessons</i>	<i>Standards</i>
<p><b>3<sup>rd</sup> 9-Weeks Content</b></p> <ul style="list-style-type: none"> <li>MDIS: N41: Area of Rectangles and Squares</li> <li>MDIS: N45: Area of Triangles</li> <li>8-1: Derive and Apply Area Formulas for Quadrilaterals</li> <li>8-2: Area of Composite Figures</li> <li>8-3: Solve Problems Involving Circumference of a Circle</li> <li>8-4: Solve Problems Involving Area of a Circle</li> <li>8-5: Solve Problems Involving Scale Drawings</li> </ul> <p><b>4<sup>th</sup> 9-Weeks Content</b></p> <ul style="list-style-type: none"> <li>8-6: Find Surface Area of Cylinders</li> <li>8-7: Find Volume of Cylinders</li> </ul>	<ul style="list-style-type: none"> <li>MA.7.GR.1.1</li> <li>MA.7.GR.1.2</li> <li>MA.7.GR.1.3</li> <li>MA.7.GR.1.4</li> <li>MA.7.GR.1.5</li> <li>MA.7.GR.2.1</li> <li>MA.7.GR.2.2</li> <li>MA.7.GR.2.3</li> </ul>	<p>Grade 7: Florida's B.E.S.T. Assessment Practice Workbook (Accessible Online via Savvas Realize)</p>  <p><i>Additional details are available in the Topic 9 Pacing Guide</i></p>	<ul style="list-style-type: none"> <li>MA.7.NSO.1</li> <li>MA.7.NSO.2</li> <li>MA.7.AR.1</li> <li>MA.7.AR.2</li> <li>MA.7.AR.3</li> <li>MA.7.AR.4</li> <li>MA.7.GR.1</li> <li>MA.7.GR.2</li> <li>MA.7.DP.1</li> <li>MA.7.DP.2</li> </ul>

**Topic 10: Strengthen Grade Level Skills Through 3-Act & Pick a Project**

04/30 – 06/05 (26 Traditional: 13 Block)

**F.A.S.T. PM3 Administration Window 05/01 – 05/31**

**Lessons & Benchmarks**

<ul style="list-style-type: none"> <li>Topic 1: Pick a Project 1C &amp; 1D</li> <li>Topic 2: Pick a Project 2C &amp; 2D</li> <li>Topic 3: Pick a Project 3C &amp; 3D</li> <li>Topic 4: Pick a Project 4C or 4D</li> </ul>	<ul style="list-style-type: none"> <li>MA.7.NSO.2.1</li> <li>MA.7.NSO.2.2</li> <li>MA.7.AR.1.1</li> <li>MA.7.AR.1.2</li> <li>MA.7.AR.3.1</li> <li>MA.7.AR.4.1</li> <li>MA.7.AR.4.2</li> <li>MA.7.AR.4.4</li> <li>MA.7.AR.4.5</li> </ul>	<ul style="list-style-type: none"> <li>Topic 5: Pick a Project 5C or 5D</li> <li>Topic 6: Pick a Project 6C or 6D</li> <li>Topic 7: Pick a Project 7C or 7D</li> <li>Topic 8: Pick a Project 8A or 8B</li> </ul>	<ul style="list-style-type: none"> <li>MA.7.AR.2.1</li> <li>MA.7.AR.2.2</li> <li>MA.7.GR.1</li> <li>MA.7.GR.1.5</li> <li>MA.7.GR.2</li> <li>MA.7.DP.1.1</li> <li>MA.7.DP.1.3</li> <li>MA.7.DP.2.1</li> <li>MA.7.DP.2.2</li> <li>MA.7.DP.2.3</li> </ul>
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M/J Foundational Skills in Mathematics 7

2024-2025

Course Code: 12040007

**Florida's B.E.S.T. Standards Mathematics**

**Mathematical Thinking and Reasoning**

**Description**

MA.K12.MTR.1.1 Actively participate in effortful learning both individually and collectively.	MA.K12.MTR.2.1 Demonstrate understanding by representing problems in multiple ways.
<p><b>Mathematicians who participate in effortful learning both individually and with others:</b></p> <ul style="list-style-type: none"> <li>Analyze the problem in a way that makes sense given the task.</li> <li>Ask questions that will help with solving the task.</li> <li>Build perseverance by modifying methods as needed while solving a challenging task.</li> <li>Stay engaged and maintain a positive mindset when working to solve tasks.</li> <li>Help and support each other when attempting a new method or approach.</li> </ul> <p><b>Clarifications:</b>  <b>Teachers who encourage students to participate actively in effortful learning both individually and with others:</b></p> <ul style="list-style-type: none"> <li>Cultivate a community of growth mindset learners.</li> <li>Foster perseverance in students by choosing tasks that are challenging.</li> <li>Develop students' ability to analyze and problem solve.</li> <li>Recognize students' effort when solving challenging problems.</li> </ul>	<p><b>Mathematicians who demonstrate understanding by representing problems in multiple ways:</b></p> <ul style="list-style-type: none"> <li>Build understanding through modeling and using manipulatives.</li> <li>Represent solutions to problems in multiple ways using objects, drawings, tables, graphs and equations.</li> <li>Progress from modeling problems with objects and drawings to using algorithms and equations.</li> <li>Express connections between concepts and representations.</li> <li>Choose a representation based on the given context or purpose.</li> </ul> <p><b>Clarifications:</b>  <b>Teachers who encourage students to demonstrate understanding by representing problems in multiple ways:</b></p> <ul style="list-style-type: none"> <li>Help students make connections between concepts and representations.</li> <li>Provide opportunities for students to use manipulatives when investigating concepts.</li> <li>Guide students from concrete to pictorial to abstract representations as understanding progresses.</li> <li>Show students that various representations can have different purposes and can be useful in different situations.</li> </ul>
MA.K12.MTR.3.1 Complete tasks with mathematical fluency.	
<p><b>Mathematicians who complete tasks with mathematical fluency:</b></p> <ul style="list-style-type: none"> <li>Select efficient and appropriate methods for solving problems within the given context.</li> <li>Maintain flexibility and accuracy while performing procedures and mental calculations.</li> <li>Complete tasks accurately and with confidence.</li> <li>Adapt procedures to apply them to a new context.</li> <li>Use feedback to improve efficiency when performing calculations.</li> </ul> <p><b>Clarifications:</b>  <b>Teachers who encourage students to complete tasks with mathematical fluency:</b></p> <ul style="list-style-type: none"> <li>Provide students with the flexibility to solve problems by selecting a procedure that allows them to solve efficiently and accurately.</li> <li>Offer multiple opportunities for students to practice efficient and generalizable methods.</li> <li>Provide opportunities for students to reflect on the method they used and determine if a more efficient method could have been used.</li> </ul>	

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**Florida's B.E.S.T. Standards Mathematics**

**Mathematical Thinking and Reasoning**

**Description**

<b>MA.K12.MTR.4.1</b> <b>Engage in discussions that reflect on the mathematical thinking of self and others.</b>	<b>MA.K12.MTR.5.1</b> <b>Use patterns and structure to help understand and connect mathematical concepts.</b>
<p><b>Mathematicians who engage in discussions that reflect on the mathematical thinking of self and others:</b></p> <ul style="list-style-type: none"> <li>Communicate mathematical ideas, vocabulary and methods effectively.</li> <li>Analyze the mathematical thinking of others.</li> <li>Compare the efficiency of a method to those expressed by others.</li> <li>Recognize errors and suggest how to correctly solve the task.</li> <li>Justify results by explaining methods and processes.</li> <li>Construct possible arguments based on evidence.</li> </ul> <p><b>Clarifications:</b>  <b>Teachers who encourage students to engage in discussions that reflect on the mathematical thinking of self and others:</b></p> <ul style="list-style-type: none"> <li>Establish a culture in which students ask questions of the teacher and their peers, and error is an opportunity for learning.</li> <li>Create opportunities for students to discuss their thinking with peers.</li> <li>Select, sequence and present student work to advance and deepen understanding of correct and increasingly efficient methods.</li> <li>Develop students' ability to justify methods and compare their responses to the responses of their peers.</li> </ul>	<p><b>Mathematicians who use patterns and structure to help understand and connect mathematical concepts:</b></p> <ul style="list-style-type: none"> <li>Focus on relevant details within a problem.</li> <li>Create plans and procedures to logically order events, steps or ideas to solve problems.</li> <li>Decompose a complex problem into manageable parts.</li> <li>Relate previously learned concepts to new concepts.</li> <li>Look for similarities among problems.</li> <li>Connect solutions of problems to more complicated large-scale situations.</li> </ul> <p><b>Clarifications:</b>  <b>Teachers who encourage students to use patterns and structure to help understand and connect mathematical concepts:</b></p> <ul style="list-style-type: none"> <li>Help students recognize the patterns in the world around them and connect these patterns to mathematical concepts.</li> <li>Support students to develop generalizations based on the similarities found among problems.</li> <li>Provide opportunities for students to create plans and procedures to solve problems.</li> <li>Develop students' ability to construct relationships between their current understanding and more sophisticated ways of thinking.</li> </ul>
<b>MA.K12.MTR.6.1</b> <b>Assess the reasonableness of solutions.</b>	<b>MA.K12.MTR.7.1</b> <b>Apply mathematics to real-world contexts.</b>
<p><b>Mathematicians who assess the reasonableness of solutions:</b></p> <ul style="list-style-type: none"> <li>Estimate to discover possible solutions.</li> <li>Use benchmark quantities to determine if a solution makes sense.</li> <li>Check calculations when solving problems.</li> <li>Verify possible solutions by explaining the methods used.</li> <li>Evaluate results based on the given context.</li> </ul> <p><b>Clarifications:</b>  <b>Teachers who encourage students to assess the reasonableness of solutions:</b></p> <ul style="list-style-type: none"> <li>Have students estimate or predict solutions prior to solving.</li> <li>Prompt students to continually ask, "Does this solution make sense? How do you know?"</li> <li>Reinforce that students check their work as they progress within and after a task.</li> <li>Strengthen students' ability to verify solutions through justifications.</li> </ul>	<p><b>Mathematicians who apply mathematics to real-world contexts:</b></p> <ul style="list-style-type: none"> <li>Connect mathematical concepts to everyday experiences.</li> <li>Use models and methods to understand, represent and solve problems.</li> <li>Perform investigations to gather data or determine if a method is appropriate.</li> <li>Redesign models and methods to improve accuracy or efficiency.</li> </ul> <p><b>Clarifications:</b>  <b>Teachers who encourage students to apply mathematics to real-world contexts:</b></p> <ul style="list-style-type: none"> <li>Provide opportunities for students to create models, both concrete and abstract, and perform investigations.</li> <li>Challenge students to question the accuracy of their models and methods.</li> <li>Support students as they validate conclusions by comparing them to the given situation.</li> <li>Indicate how various concepts can be applied to other disciplines.</li> </ul>