

# MathLinks

ESSENTIALS

## A SOLID PLAN FOR CATCHING STUDENTS UP!

Fill gaps so students can move forward.

Target the major work of grades 5 – 8.

Deliver instruction with face-to-face or distance learning (digital) options.

### *MathLinks: Essentials Components*

- (Students) Short consumable packets focus on concepts, skills, and problem solving. The packets make learning easier for students at school or at home.
- (Teachers) Teacher Edition and online resources support face-to-face and remote instruction, including easy to follow slide decks and lesson notes, assessments, and answer keys.
- (Review) For a classroom or home routine, Skill Boosters fill gaps with short, structured, daily practice.
- (Enhance) Motivate students with meaningful technology activities that can be completed at home with little instruction.

### Two ways to customize the program

Each *MathLinks: Essentials* Packet includes 3 lessons, review activities, vocabulary practice, definitions, and examples. Packets take about 10 typical class periods. (See the next page for packet content.)

Goal: Supplemental catch up plan to integrate with your current curriculum	Goal: For students that are far behind, target the major work of the current grade and the previous grade.
6 <sup>th</sup> graders: NBT1 FR1, FR2, FR3 7 <sup>th</sup> graders: PR1, PR2, IN1, E1 8 <sup>th</sup> graders: IN2, IN3, PR3, EE2 9 <sup>th</sup> graders: EE3, FN1, FN2, FN3	6 <sup>th</sup> graders: NBT3, FR1, FR2, FR3, IN1, PR1, PR2, EE1 7 <sup>th</sup> graders: IN1, IN2, IN3, EE1, EE2, PR1, PR2, PR3 8 <sup>th</sup> graders: IN2, IN3, EE2, EE3, PR3, FN1, FN2, FN3

For more information on *MathLinks: Essentials*, please contact Cynthia Raff ([cynthia@mathandteaching.org](mailto:cynthia@mathandteaching.org) or 310-569-8258) or visit [www.mathandteaching.org/essentials](http://www.mathandteaching.org/essentials)

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## A SUPPLEMENTAL/INTERVENTION PROGRAM

### Empower Learners for Success in Middle School Work

*MathLinks: Essentials* is a **flexible, modular, efficient, distance-learning-friendly** program that focuses on the major work of middle school mathematics and critical number concepts from upper elementary school. Its primary goal is to make content accessible to all learners and to help students catch up.

Some appropriate uses of *MathLinks: Essentials*:

- ✓ Intervention in middle and high school
- ✓ Supplemental modules in core classes to help students catch up
- ✓ Summer programs
- ✓ Special education programs

<b>NUMBERS IN BASE TEN</b>	
• Packet 1: Whole Number Multiplication and Division	(4.OA.2-3, 4.NBT5-6, 5.NBT5-6, 6.NS2)
• Packet 2: Decimal Concepts	(4.NF.1, 5.NBT.1, 5.NBT3)
• Packet 3: Decimal Operations	(5.NBT6-7, 6.NS3)
<b>FRACTIONS</b>	
• Packet 1: Fraction Concepts and Equivalence	(4.NF.1-2)
• Packet 2: Fraction Addition and Subtraction	(4.NF.1-2, 5.NF.1-2)
• Packet 3: Fraction Multiplication and Division	(5.NF.4-7)
<b>INTEGERS</b>	
• Packet 1: Introduction to Integers	(6.NS.5-8)
• Packet 2: Integer Addition and Subtraction	(7.NS.1)
• Packet 3: Integer Multiplication and Division	(6.NS.5, 7.NS.1-2)
<b>PROPORTIONAL REASONING</b>	
• Packet 1: Ratio Representations	(6.RP.1-3)
• Packet 2: Percents	(4.NF.6, 6.RP.3, 7.RP.3, 7.NS.2-3)
• Packet 3: Proportional Reasoning Applications	(6.RP.3, 7.RP.2, 7.G.1, 7.EE.3, 8.F.4)
<b>EXPRESSIONS AND EQUATIONS</b>	
• Packet 1: Variables and Balance	(6.NS.3, 6.EE.2-7, 7.EE.4)
• Packet 2: Expressions and Balance	(6.EE.3-7, 7.EE.3-4)
• Packet 3: Expressions, Equations, and Applications	(6.EE.3-7, 7.EE.4, 8.EE.7)
<b>FUNCTIONS</b>	
• Packet 1: Introduction to Linear Functions	(6.RP.3, 7.RP.2, 8.EE.8, 8.F.3, 8.F.4)
• Packet 2: Slope and Slope Intercept Form of Line	(8.F.2-4)
• Packet 3: Systems of Linear Equations	(8.EE.8, 8.F.2-4)

<p>In every packet:</p> <ul style="list-style-type: none"> <li>✓ Essential middle school math content</li> <li>✓ Opening problems to grab student interest</li> <li>✓ Slide decks activities to support teaching and learning</li> <li>✓ Practice and review activities that engage learners</li> </ul>	<p>As part of the program:</p> <ul style="list-style-type: none"> <li>✓ Skill Boosters to fill gaps in prior knowledge</li> <li>✓ Assessments of packet and basic skills</li> <li>✓ Technology lessons that enhance content</li> <li>✓ Secure website resources for teachers</li> </ul>
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