



Standards-Based Assessment + Instruction

PROBLEM SOLVING
FOR THE **21ST CENTURY**

BUILT FOR THE
**NYS NEXT GENERATION
LEARNING STANDARDS**

Illustrative Math Alignments
Grade 5

1. Login to Exemplars Library: library.exemplars.com with your school e-mail and password
2. Select the Grade 5 Unit you are working on:
 - [Unit 1: Finding Volume](#)
 - [Unit 2: Fractions as Quotients and Fraction Multiplication](#)
 - [Unit 3: Multiplying and Dividing Fractions](#)
 - [Unit 4: Wrapping Up Multiplication and Division with Multi-Digit Numbers](#)
 - [Unit 5: Place Value Patterns and Decimal Operations](#)
 - [Unit 6: More Decimal and Fraction Operations](#)
 - [Unit 7: Shapes on the Coordinate Plane](#)
 - [Unit 8: Putting It All Together](#)
3. Once you are in the correct Unit, click on the task name, which is directly linked to the Exemplars Library where you can download a printer-friendly PDF and lesson planning sheet for the corresponding task.

**** Note: You must be logged into the Exemplars Library to access the tasks in this document.**

Illustrative Math: Grade 5

Unit 1: Finding Volume

Section A: Unit Cubes and Volume	Section B: Expressions for Finding Volume	Section C: Volume of Solid Figures
<p>Students begin this unit with many hands on experiences that allow them to make sense of volume as a measurement of three-dimensional figures by building objects with unit cubes and counting the cubes. This will provide them with a foundation in which to problem solve about volume in the upcoming sections.</p>	<p>Making Taffy</p>	<p>Fudge Display</p>
	<p>A Box for Candy</p>	<p>Pyramid of Tissue Boxes</p>
	<p>Box Problem</p>	<p>Summative Assessment Task: Cereal Box Display</p>
	<p>Summative Assessment Task: Building Boxes</p>	

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Unit 2: Fractions as Quotients and Fraction Multiplication

Section A: Fractions as Quotients	Section B: Fractions of Whole Numbers	Section C: Area and Fractional Side Lengths
Use tasks from Unit 1.	Planning a Party	Newspaper Layout
	Painting Classrooms	Summative Assessment Task: Park Play Area
	Favorite Sport	
	Pond Critters	
	Summative Assessment Task: Time for Exercise	

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Unit 3: Multiplying and Dividing Fractions

Section A: Fraction Multiplication	Section B: Fraction Division	Section C: Problem Solving with Fractions
Use tasks from Unit 2.	Relay Race for Charity	Squirrel Babies
	Strawberry Shortcake	For the Birds
	Ribbon Bookmarks	Summative Assessment Task: Prize Ribbons With Sequins
	Packages of Chocolate	
	Summative Assessment Task: Bows for Gift Baskets	

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Unit 4: Wrapping Up Multiplication and Division with Multi-Digit Numbers

Section A: Multi-digit Multiplication Using the Standard Algorithm	Section B: Multi-digit Division Using Partial Quotients	Section C: Let's Put it to Work
Use tasks from Unit 3.	Beads for Everyone	A Box for Base-10 Blocks
	A Field Trip Challenge	A New Aquarium
	A Border for Mr. Gomez's Kitchen	Perfect Attendance
	Baseball Equipment	Crayons for Fifth Grade
		An Egg Farm
		Buttons for a Craft Project
		Summative Assessment Task: Popsicle Party
		Summative Assessment Task: Feathers for Frames

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Unit 5: Place Value Patterns and Decimal Operations

Section A: Numbers to Thousandths	Section B: Add and Subtract Decimals	Section C: Multiply Decimals	Section D: Divide Decimals
Bamboo and the Botanist	Snack Bars	Muffins	A Celebration
A Fifth Grade Competition	Rainfall	Phoning New Friends	Buying Plastic Plates
Summative Assessment Task: Crab Walk Relay Race	Laundry Dilemma	Collecting Insects	Sport Jerseys
Aquarium Temperatures		New Balls for Recess	Wheels for Inline Skates
A Good Night's Sleep		Calling Plans	Paulo's Monthly Salary
New Equipment		Summative Assessment Task: Ms. Harley Rides to School	
Training for a Race			
Gymnastic Championship			
Summative Assessment Task: Football Players			

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Unit 6: More Decimal and Fraction Operations

Section A: Measurement Conversions and Powers of 10	Section B: Add and Subtract Fractions with Unlike Denominators	Section C: The Size of Products
Dimes and Dollars	Lots of Cake	Three Pig Home Builders
Digit Dilemma	A Necklace Challenge	
Shh! It's a Secret	Pizza by the Slice	
The Number Game	Working	
Summative Assessment Task: Money in Banks	Ribbon for a Project	
Which Choice?	Summative Assessment Task: Stuffed with Pizza	
Termite Homes	Sorting Metal Fasteners	
Seashells for Lydia	Scrapbooking	
Flying Home	Hungry Newborn Lion Cubs	
Summative Assessment Task: A Light For Mike	Thursday Night, Friday Morning	
Bella's Homecoming	Summative Assessment Task: Cargo Barges	
Hanging Model Airplanes		
Filling an Old Swimming Pool		
Filling a Fish Tank		
Weighing Pennies		
Chocolate Chip Cookies for Relatives		
Summative Assessment Task: Watering Plants		

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Unit 7: Shapes on the Coordinate Plane

Section A: The Coordinate Plane	Section B: The Hierarchy of Shapes	Section C: Numerical Patterns
A Carnival	Classifying Geometric Figures	Cans and Bottles
Planning a Soccer Field	Charting Geometric Figures	A Chickadee and a Cardinal
At the Mall		Collecting Basketball Cards
Going Out to Eat		Plants and Insects
Summative Assessment Task: Herds of Cattle		Stars
		Summative Assessment Task: A Stone Wall

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Unit 8: Putting It All Together

Section A: Multiply and Divide Whole Numbers	Section B: Apply Volume Concepts	Section C: Fraction and Decimal Operations	Section D: Creation and Design
Use tasks from Unit 4.	Use tasks from Unit 1 as well as Unit 4 Section C	Use tasks from Unit 2; Unit 3; Unit 5 Section B and C; Unit 6 Section B and C.	Use tasks from previous units.