



Standards-Based Assessment + Instruction

PROBLEM SOLVING
FOR THE **21ST CENTURY**

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

Illustrative Math Alignments
Grade 4

1. Login to Exemplars Library: library.exemplars.com with your school e-mail and password
2. Select the Grade 4 Unit you are working on:
 - [Unit 1: Factors and Multiples](#)
 - [Unit 2: Fraction Equivalence and Comparison](#)
 - [Unit 3: Extending Operations to Fractions](#)
 - [Unit 4: From Hundredths to Hundred-thousands](#)
 - [Unit 5: Multiplicative Comparison and Measurement](#)
 - [Unit 6: Multiplying and Dividing Multi-digit Numbers](#)
 - [Unit 7: Angles and Angle Measurement](#)
 - [Unit 8: Properties of Two-dimensional Shapes](#)
 - [Unit 9: 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 4

Unit 1: Factors and Multiples

| Section A: Understand Factors and Multiples | Section B: Find Factor Pairs and Multiples |
|---|---|
| Posters | Hot Dogs and Buns for Friends |
| Boxes for Mini Muffins | Snacks on the Playground |
| Marching Ants | The Fitness Center |
| Summative Assessment Task: Muffins in a Box | Summative Assessment Task: Insects on Tiles |
| | Poster Board Choices |
| | Summative Assessment Task: A Bulletin Board |

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Unit 2: Fraction Equivalence and Comparison

| Section A: Size and Location of Fractions | Section B: Equivalent Fractions | Section C: Fraction Comparison |
|--|--|-----------------------------------|
| A New Rug | Tom's Brownies | The Largest Share |
| A Snack for a Class | Rectangular Pizza | Favorite Crackers |
| | Summative Assessment Task: Pans of Jell-O | |

Illustrative Math: Grade 4

Unit 3: Extending Operations to Fractions

| Section A: Equal Groups of Fractions | Section B: Addition and Subtraction of Fractions | Section C: Addition of Tenths and Hundredths |
|--|---|--|
| Chocolate Bars | Coloring Circles | A New Quilt for Victoria |
| Celery Sticks With Peanut Butter | Magic Beans | Experienced Bike Riders |
| Potato Salad | Popcorn for Everyone | Tangram Challenge |
| Summative Assessment Task: Sharing Muffins | Tom's Brownies | Summative Assessment Task: Cutting Pipes |
| Keisha's Barbecue | Rectangular Pizza | |
| A Puzzle | A Raspberry Pie | |
| Planting Crops | Cutting Strong String | |
| Summative Assessment Task: Nine Friends | Summative Assessment Task: Sawing a Board | |
| | Hunting With Hawks | |
| | Feeding Newborn Puppies | |
| | Snails on the Move! | |
| | Bean Plants for Mother's Day | |
| | Summative Assessment Task: Reading on Tuesday Night | |

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Unit 4: From Hundredths to Hundred-thousands

| Section A: Decimals with Tenths and Hundredths | Section B: Place-value Relationships through 1,000,000 | Section C: Compare, Order, and Round | Section D: Add and Subtract |
|--|---|--|--|
| Basketball Practice | Use tasks from Unit 4 Section A. | Traveling to Football Games | A Million Pop Tops |
| Bags of Dimes | | Hives and Nests | The Botanical Gardens |
| Eating Pizza | | Towers of Bricks | A New Driveway |
| Red Marbles | | Summative Assessment Task: A Computer Game | Baseball Stadium Seats |
| Helping Doctors | | | Summative Assessment Task: Soccer Practice |
| Summative Assessment Task: Two Girls and Two Cakes | | | |

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Unit 5: Multiplicative Comparison and Measurement

| Section A: Multiplicative Comparison | Section B: Measurement Conversion | Section C: Let's Put it to Work |
|---|--------------------------------------|---|
| Dog Years | Thanksgiving Dinner | A Jumping Good Time |
| Making Cakes | | Summative Assessment Task: Cars on a Ramp |
| Feeding Lizards and Frogs | | Xeno, the Xylophone Maker |
| Large Muffins | | |

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Unit 6: Multiplying and Dividing Multi-digit Numbers

| Section A: Features of Patterns | Section B: Multi-digit Multiplication | Section C: Multi-digit Division | Section D: Let's Put It to Work: Problem Solving with Large Numbers |
|---|--|--|--|
| Bird Watching | A Brick Sidewalk | Skateboard Wheels | A Garden for Polly |
| Popcorn | A Field Trip | Summative Assessment Task: Tile Border | The Morgan's New Garden |
| Apple Picking | Selling Sport Posters | Grandfather's Wallet | A Puppy Kennel |
| Picking Peaches | Jigsaw Puzzles | Drawing Paper | A Sandbox |
| Building With Blocks | Equipment for a Park | Sharing Jelly Beans | Pencils |
| Summative Assessment Task: Flying South | Bags of Stickers | A Gift | |
| Mike's Decision | | Summative Assessment Task: Tires for Sale | |
| Going on Vacation | | | |
| Painting a House | | | |
| A Summer Job for Jane | | | |
| Summative Assessment Task: Susan's Allowance | | | |

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Unit 7: Angles and Angle Measurement

| Section A: Points, Lines, Segments, Rays, and Angles | Section B: The Size of Angles | Section C: Angle Analysis |
|---|--|---------------------------------------|
| | Acute Angles | Spinner Fixing |
| | Finding the Angles | A Fist-Full of Angles |
| | Summative Assessment Task: Pairs of Angles | |
| | An Angle Challenge | |

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Unit 8: Properties of Two-dimensional Shapes

| Section A: Side Lengths, Angles, and Lines of Symmetry | Section B: Reason about Attributes to Solve Problems |
|--|---|
| Jordan's Math Challenge | Gumdrop Shapes |
| Pattern Block Tile Design | All About Shapes |
| A Design for Little Bear | A Necklace for Cindy |
| Working With Pentominoes | Using Some Clues |
| Summative Assessment Task: Pattern Block Tile Design | Making Geometric Shapes |
| | Summative Assessment Task: A Shape Game |

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Unit 9: Putting It All Together

| Section A: Reason with Fractions | Section B: Whole-number Operations | Section C: Solve Problems with Multiplication and Division | Section D: Creation and Design |
|-------------------------------------|---|--|---|
| The Pie Sale | Helping a School | Mrs. Ruben's Cookies | Use tasks from any of the previous units. |
| Use tasks from Unit 2 and Unit 3. | Puppet Shows | Packages of Crayons | |
| | Use tasks from Unit 4 Section D and Unit 5 Section C. | Use tasks from Unit 6. | |