

Fourth Grade Cluster 2

Additional Resources



Videos to share with parents and colleagues:

- These videos explain how to solve multiplicative comparison problems using models.
<https://www.youtube.com/watch?v=NEkRjZJGvnI> and https://learnzillion.com/lesson_plans/5644-solve-multiplicative-comparison-word-problems-by-using-bar-models/
- This video helps you see the steps to solve rectilinear area and perimeter.
<https://www.youtube.com/watch?v=pfGMBtOyPlo>

Videos to share with students:

- Animated multiples video for kids: <http://studyjams.scholastic.com/studyjams/jams/math/multiplication-division/multiples.htm>
- Catchy song/dance about factors and multiples: <https://www.youtube.com/watch?v=ZCGdGielcBs>
- Animated prime/composite video for kids: <http://studyjams.scholastic.com/studyjams/jams/math/multiplication-division/prime-/composite-numbers.htm>
- Animated rap video about factors/prime numbers (Flocabulary subscription needed):
<https://www.flocabulary.com/unit/factors/>
- Catchy song about prime/composite: <https://www.youtube.com/watch?v=zMfdp7Ib7CA>
- Animated video about perimeter: <http://studyjams.scholastic.com/studyjams/jams/math/measurement/perimeter.htm>
- Animated video about area: https://www.youtube.com/watch?v=d_6X0BpoDz4
- Area and perimeter by NUMBERROCK: <https://www.youtube.com/watch?v=Ipy09H0ktyI>
- Area and perimeter rap: https://www.youtube.com/watch?v=rSVMrPu0_U

Literature connections:

- *You Can Count on Monsters* by Richard Evan Schwartz – This book helps students visually see prime numbers.
- *Racing Around* by Stuart J. Murphy – This book incorporates geometry and helps students understand how to find the perimeter of a race track. Hear it read aloud here: https://www.youtube.com/watch?v=IkvCgOU_Hb0
- *Chickens on the Move* by Pam Pollack and Meg Belviso – In this book, children are trying to use perimeter to build a new coop for their chickens. Hear it read aloud here: <https://www.youtube.com/watch?v=jXnacAakm0>
- *Sam's Sneaker Squares* by Nat Gabriel – In this book, Sam measures the area of lawns and calculates how much money he should earn if he mows each one.

- *Spaghetti and Meatballs for All!* by Marilyn Burns – Help Mr. and Mrs. Comfort arrange tables for their family reunion. Hear it read aloud here: https://www.youtube.com/watch?v=jf1_GmgeU5cw

Manipulative options:

- Square tiles/counters to model multiplicative comparisons.
- Hundred's board and different colored markers to help students visualize multiples and prime numbers to 50.
- Square tiles and Legos are a fun and engaging tool to help students to find area and perimeter.
- Geoboards are good for creating rectilinear shapes.
- Multiplication flash cards: <https://www.multiplication.com/sites/default/files/files/BWFlashcards0-12.pdf>

Online games for kids:

- This interactive game allows students to create models that represent multiplicative comparison problems. https://www.mathplayground.com/tb_multiplication/index.html
- In this racing game, students must use their knowledge of multiples to crash cars and jump over obstacles. <http://www.coolmath-games.com/0-crazy-taxi-m12>
- This game helps students distinguish between prime and composite numbers. http://www.sheppardsoftware.com/mathgames/numbers/fruit_shoot_prime.htm
- Students must know the factors of numbers to win this competition between players or the computer. <https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Factor-Game/>
- You are trapped inside a board game designed by Professor X. Can you escape in time? Students must use their knowledge of factors to escape from Professor X's game board. https://www.mathplayground.com/professor_x_and_the_factorbots/index.html
- Interactive game where students find the area and perimeter of rectangles. https://www.mathplayground.com/area_perimeter.html
- Answer area and perimeter questions to build your own robot. http://www.learnalberta.ca/content/me3us/flash/lessonLauncher.html?lesson=lessons/12/m3_12_00_x.swf
- Students will learn how to find the area and perimeter of rectangles. https://www.mathplayground.com/area_perimeter.html
- Students will create shapes with the correct area and perimeter. https://www.mathplayground.com/area_blocks.html
- Students will use area and perimeter to make a floor plan for the party they are planning. <https://www.mathplayground.com/PartyDesigner/index.html>
- Students are given the perimeter of a figure and will calculate the missing side. <https://www.mathgames.com/skill/3.19-perimeter-find-the-missing-side-length>
- Build It: Students will build shapes with the correct area. https://phet.colorado.edu/sims/html/area-builder/latest/area-builder_en.html
- Simple addition/subtraction multistep word problems tied in with basketball. https://www.mathplayground.com/mathhoops_Z1.html