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Follow the adventures of a perfect square through the course of a week. See the square shredded and snipped, torn and ripped and how the pieces become something beautiful!

Ages: 3 to 9 years

Interest Level:

Preschool to 3rd Grade

ATOS Reading Level:

2.2

Lexile: 470L

ISBN:

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Copyright: 2011

Genre: Fiction

Classification: Picture Story Book

Perfect Square

How many things can one perfect square turn into?

Topics: geometry, shapes, transformations

Math Connections: Use *Perfect Square* to introduce the idea that objects are made from geometric shapes and combinations of shapes; squares, rectangles, trapezoids, triangles, and circles.

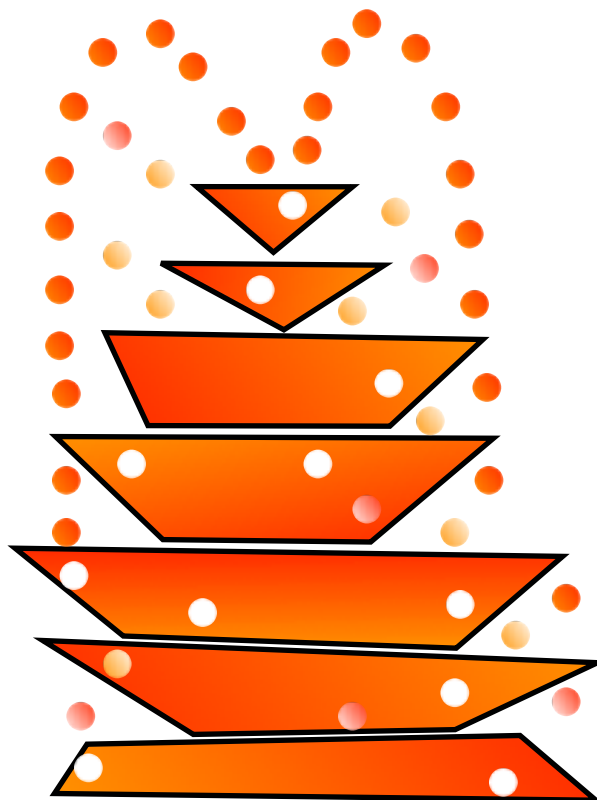
Talk about polygons. Polygons are 2-dimensional, closed geometric shapes made up of straight lines, like squares, rectangles and triangles. Find polygons in the world around you. Where do you see them?

Talk about the attributes that make each shape unique. Look at the similarities and differences between rectangles and squares. Consider how triangles are like rectangles and how they are different. What other differences and similarities can you and your child find in other shapes?

Challenge your child to create different images from a square. Ask your child what they would like to make. Get the whole family involved and make a mural using different shapes!

Extension Questions:

1. Is the main character in the story a perfect square? How do you know?
2. Which is your favorite shape? How is this shape different than other shapes?
3. Which images had the most pieces? Which had the fewest?
4. What polygons do you see in the bridge?
5. Which shapes in the fountain are polygons? Which are not?



EARLY MATH PROJECT LITERATURE REVIEW

Vocabulary for Building Math Concepts	corners, equal, four, matching, perfect square, sides, square
Vocabulary for Extending Math Concepts	days of the week, polygons, rearranging shapes to make other shapes, tessellations, transformations
Vocabulary for Reading Comprehension	babbles, confining, cramped, crumpled, rigid, fountain, giggles, scraps, shattered, shredded, snipped, wrinkled

Spanish Title: Not available

Related Books: *The Greedy Triangle* by Marilyn Burns; *Mouse Shapes* by Ellen Stoll Walsh

Find this book at your local library: https://www.worldcat.org/title/perfect-square/oclc/773666509&referer=brief_results

Early Math Project Resources:

[Make a Perfect Square](#) (English)

[Hacer un Cuadrado Perfecto](#) (Spanish)

[Rope Shapes](#) (English)

[Formas de Soga](#) (Spanish)

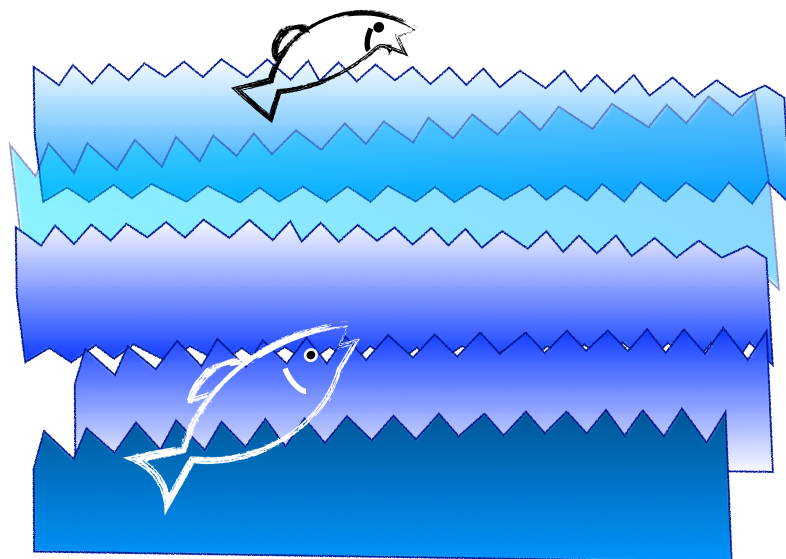
[Perfect Polygons](#) (English)

[Polígonos Perfectos](#) (Spanish)

Online Resources:

[Perfect Square Shapes Art](#) from Pre-K Pages by Vanessa Levin

[Magical Adventures with a Perfect Square](#) from My Little Bookcase



EARLY MATH PROJECT LITERATURE REVIEW

Age Level	Related Preschool Foundations and CA State Standards
Preschool/ TK	Geometry 1.0 Children identify and use a variety of shapes in their everyday environment. 1.1 Identify, describe, and construct a variety of different shapes. 1.2 Use shapes to represent different elements of a picture or design.
Kindergarten	Geometry K.G.2 Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres). K.G.5 , K.G.6 Analyze, compare, create, and compose shapes.
Grade 1	Geometry 1.G.1 , 1.G.2 Reason with shapes and their attributes.
Grade 2	Geometry 2.G.1 Reason with shapes and their attributes.
Grade 3	Geometry 3.G.1 Reason with shapes and their attributes.

