

# Perfect Square Shapes



## Math & Visual Art

Grade  
K

Math Common Core Standard Grade K

K.G.6

Compose and decompose simple shapes to form larger shapes.

Visual Arts (MD) Standard Grade K

3.1.c

Create artworks that explore the uses of color, line, shape, and texture to express ideas and feelings.



## CONNECTED OBJECTIVES

After reading the book, *Perfect Square*, by Michael Hall, the students will be inspired to use their imaginations to decompose the simple shape of a square to create and form something new that explores color, line, and shape.

## MATERIALS & RESOURCES

- The book *Perfect Square*
- Precut squares of construction paper in many colors (anywhere from 5x5 to 8x8 inches)
- Scissors
- Glue
- Markers, crayons, pastels, etc.

## KEY CONTENT VOCABULARY

- Sides
- Corners/Vertices
- Lines
- Squares & other flat shapes

## KEY ARTS VOCABULARY

- Color
- Line
- Shape

## A S S E S S M E N T

Students will be evaluated on

- Whether or not something new was created from the square;
- Whether or not they could identify how many sides and corners the new creation had;
- Whether or not they used all parts of the square;
- Whether or not they used two different types of lines;
- Whether or not they could correctly identify the new shapes in their picture.



# L E S S O N S T E P S

- Review flat shapes (circle, rectangle, square, triangle, and hexagon) and have children identify how many sides and corners/vertices each shape has.
- Read the book *Perfect Square*. During the reading, have children identify the colors, lines, and shapes of each new thing the square transforms into on each day.
- Have the children think then “turn and talk” to a partner about what else the perfect square could transform/compose/decompose into if they were writing another page for the book.
- Model ways of altering the paper such as tearing, cutting, and crumpling.
- Allow students the option of a “practice” square first if needed.
- Have students select a colored construction paper precut square and create something new (composing/decomposing the original square) emphasizing the vocabulary of lines, shapes, corners/vertices and sides.

## EXTENSIONS & OPTIONS

- Students orally describe what they made out of the perfect square.
- The students can write an additional book page telling what happened to the square and what it made itself into the next day.

## SOURCES & RESOURCES

*Perfect Square* by Michael Hall, published by Greenwillow Books

G E T S M A R T T H R O U G H T H E A R T S

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S u p p o r t i n g D o c u m e n t s