

Fractions: Visual Art

Get Smarts THROUGH the

Math & Visual Arts

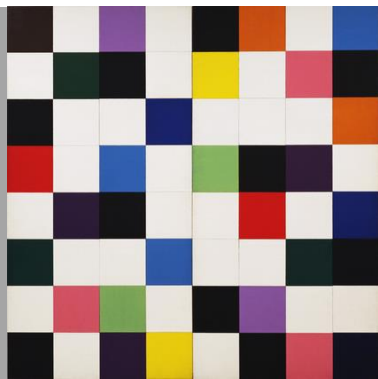
Grade
4

Math Common Core Standard(s) Grade 4

CCSS.Math.Content.4.NF.A.1 Explain why a fraction a/b is equivalent to a fraction $(n \times a)/(n \times b)$ by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. Use this principle to recognize and generate equivalent fractions.

Visual Arts (MD) Standard(s) Grade 4

2.4.a Identify common themes in art that relate to content explored in other disciplines.
4.2.c Apply criteria evaluate personal artworks and the artworks of others.



CONNECTED OBJECTIVES

Students will review how to write fractions and find fractions in the work “Colors for a Large Wall” by Ellsworth Kelly and “Composition No. 11 with Red and Blue” by Piet Mondrian. Students will use tiles to create mosaics that display their knowledge of fractions.

MATERIALS & RESOURCES

- Colored tiles
- “Fractions of a Set Artwork” PowerPoint
- “Design of Fractions” PowerPoint
- Cards for creating artwork using fractions

KEY CONTENT VOCABULARY

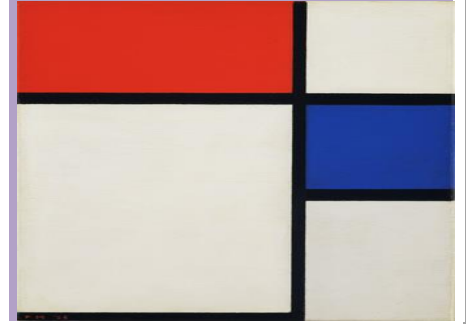
Fraction

KEY ARTS VOCABULARY

Mosaic

A S S E S S M E N T

- Exit ticket



L E S S O N S T E P S

* Introduce how to write a fraction.

- Use the “Fractions of a Set Artwork” PowerPoint to introduce fractions.
- Students should analyze the picture “Colors for a Large Wall” by Ellsworth Kelly.
- Have the students create a fraction to describe the black squares found in the painting.
- Next, the students should pick another color in the painting and create a fraction to describe that color in the painting.

Use tiles to represent fractions.

- Using the “Design of Fractions” PowerPoint, guide students to use mosaics to create fractions.
- Start by using the tiles to create a design that is $\frac{1}{2}$ blue.
- Have students walk around the room and analyze their peers’ mosaics.

Practice using fractions to create art.

- Students should answer the questions about the tile designs found on slide 3 of the “Design of Fractions” PowerPoint.
- Students should use the tiles to create a mosaic that is $\frac{1}{4}$ red.
- The teacher will hand out the design cards. Students should create a mosaic using the fraction found on their design card.

Assess

- Looking at slide 4 of the “Design of Fractions” PowerPoint, students will determine what fractions are represented by the artist Piet Mondrian in “Composition No. 11 with Red and Blue”.

EXTENSIONS & OPTIONS SOURCES & RESOURCES

* Show the students a larger variety of mosaics and have them write the fractions for each color in the mosaic.

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

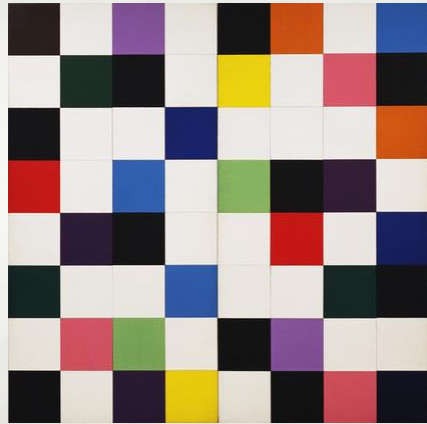
Create a Mosaic that is $\frac{1}{4}$ Blue	Create a Mosaic that is $\frac{1}{3}$ Blue
Create a Mosaic that is $\frac{1}{2}$ Green	Create a Mosaic that is $\frac{1}{3}$ Orange
Create a Mosaic that is $\frac{1}{2}$ Red	Create a Mosaic that is $\frac{1}{4}$ Orange
Create a Mosaic that is $\frac{1}{4}$ Red	Create a Mosaic that is $\frac{3}{4}$ Blue
Create a Mosaic that is $\frac{1}{4}$ Green	Create a Mosaic that is $\frac{3}{4}$ Red

Exit Ticket

Name _____ Date _____

If Piet Mondrian had been told to use fractions to create “Composition No. 11 with Red and Blue” what fractions would he have used?

“Colors for a Large Wall” by Ellsworth Kelly



- Can you create a fraction to describe the black squares found in this painting?
- Can you create a fraction that will describe another color?