

---

# Faces of Mount Rushmore

---

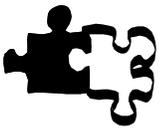
## Based on the Mount Rushmore National Memorial Quarter

### Grades Four through Six



#### OBJECTIVE

Students will demonstrate an understanding of how to compare and contrast. Students will demonstrate an understanding of scale measurements.



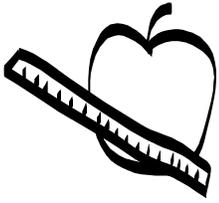
#### SUBJECT AREA CONNECTIONS

- Social Studies
- Math



#### SUMMARY

1. Display and examine the “Mount Rushmore National Park Quarter” page or use the zoom feature at [www.usmint.gov/mint\\_programs/atb/?local=Mount Rushmore](http://www.usmint.gov/mint_programs/atb/?local=Mount+Rushmore). Locate this national site on a class map. Note its position in relation to your school’s location. Tell the students that the front of a coin is called the “obverse” and the back is called the “reverse.” As background information, explain to the students that the United States Mint began to issue the quarters in the America the Beautiful Quarters® Program in 2010. By the time the program ends in 2021, there will be a total of 56 designs. Each design will focus on a different national site—one from each state, territory, and the District of Columbia.
2. Locate and display an image of Mount Rushmore. Ask the students to identify each president. Distribute one “Measuring Mount Rushmore” worksheet to each student. Have the students record their predictions on the worksheet while studying the image. Have the students share their predictions with the class. Record the largest and smallest predictions on a class chart. Read a chosen text on Mount Rushmore to learn about the monument’s history and how it was carved.
3. Using the “Measuring Mount Rushmore Key,” give the students the correct measurements and have them record them on their worksheets. Encourage the students to compare and contrast their predictions to the correct sizes.
4. Using various measuring tools (yardsticks, rulers, measuring tapes, or string or yarn cut to the correct lengths), have the students mark the width of the eyes of the sculptures (11 ft) by laying the measuring tools out on the classroom floor or outside on a large open space such as a playground. Repeat this for the mouth width (18 ft.) and the nose length (20 or 21 ft.). As a class, discuss the size of the mountain that might be needed to create four faces with these dimensions. Explain how the creators used a scale measure of 1 inch to 12 inches from the original scaled sculpture to the final sculpture. Show students the photo of the scale model from the Library



---

# Faces of Mount Rushmore

---

of Congress Web site listed under “Resources” below. Have students complete the problems on the “Measuring Mount Rushmore” worksheet.

5. Have students work in pairs to measure and record the width of their eyes, nose, and mouth using centimeter measurements. Have students draw a scale model portrait of their face using a scale of 1 cm to 10 cm on poster board.



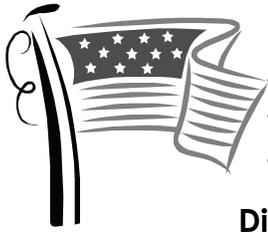
## ASSESSMENT

- Take anecdotal notes about the students’ participation in class discussions and activities.
- Evaluate the students’ worksheets for understanding of the lesson objectives.



## RESOURCES

- Worksheets:
  - Mount Rushmore National Memorial Quarter
  - Measuring Mount Rushmore
  - Measuring Mount Rushmore Key
- An age-appropriate text that gives information about Mount Rushmore, such as:
  - *Who Carved the Mountain: The Story of Mount Rushmore* by Jean L. S. Patrick
  - *Hanging Off Jefferson’s Nose: Growing Up on Mount Rushmore* by Tina Nichols Coury
  - *Rushmore* by Lynn Curlee
- Age-appropriate, relevant web sites, such as:
  - Mount Rushmore National Memorial: [www.nps.gov/moru/index.htm](http://www.nps.gov/moru/index.htm)
  - Mount Rushmore National Memorial carving history: [www.nps.gov/moru/historyculture/carving-history.htm](http://www.nps.gov/moru/historyculture/carving-history.htm)
  - Library of Congress image of scaled sculpture: [www.loc.gov/pictures/resource/cph.3c05079/](http://www.loc.gov/pictures/resource/cph.3c05079/)



Name \_\_\_\_\_

# Measuring Mount Rushmore

**Directions:** Convert each measurement and fill in the blank using a 12-to-1-inch scale.

## GEORGE WASHINGTON



### Predictions

Nose \_\_\_ Mouth \_\_\_ Eye \_\_\_

### Actual

Nose \_\_\_ Mouth \_\_\_ Eye \_\_\_

## THOMAS JEFFERSON



### Predictions

Nose \_\_\_ Mouth \_\_\_ Eye \_\_\_

### Actual

Nose \_\_\_ Mouth \_\_\_ Eye \_\_\_

## TEDDY ROOSEVELT



### Predictions

Nose \_\_\_ Mouth \_\_\_ Eye \_\_\_

### Actual

Nose \_\_\_ Mouth \_\_\_ Eye \_\_\_

## ABRAHAM LINCOLN



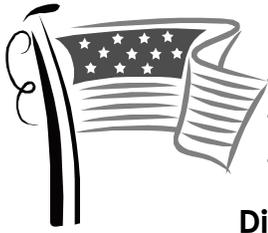
### Predictions

Nose \_\_\_ Mouth \_\_\_ Eye \_\_\_

### Actual

Nose \_\_\_ Mouth \_\_\_ Eye \_\_\_

1. The length of George Washington's nose on Mount Rushmore is \_\_\_\_\_. On the scale model, the length was \_\_\_\_\_. How many yards is Washington's nose on the sculpture? \_\_\_\_\_. How many feet and inches is Washington's nose on the model? \_\_\_\_\_
2. The length of each president's nose (except Washington's) on Mount Rushmore is \_\_\_\_\_. On the scale model, the length of each nose was \_\_\_\_\_. How many yards is Jefferson's nose on the sculpture? \_\_\_\_\_. How many feet and inches is Washington's nose on the model? \_\_\_\_\_
3. The width of each president's eye on Mount Rushmore is \_\_\_\_\_. On the scale model, the width of each eye was \_\_\_\_\_. How many yards wide is each eye on the sculpture? \_\_\_\_\_
4. The width of each president's mouth on Mount Rushmore is \_\_\_\_\_. On the scale model, the width of each mouth was \_\_\_\_\_. How many yards wide is each president's mouth on the sculpture? \_\_\_\_\_. How many feet and inches wide is each mouth on the model? \_\_\_\_\_



Name \_\_\_\_\_

# Measuring Mount Rushmore

**Directions:** Convert each measurement and fill in the blank using a 12-to-1-inch scale.

## GEORGE WASHINGTON



### Predictions

Nose \_\_\_ Mouth \_\_\_ Eye \_\_\_

### Actual

Nose **21 ft.** Mouth **18 ft.** Eye **11 ft.**

## THOMAS JEFFERSON



### Predictions

Nose \_\_\_ Mouth \_\_\_ Eye \_\_\_

### Actual

Nose **20 ft.** Mouth **18 ft.** Eye **11 ft.**

## TEDDY ROOSEVELT



### Predictions

Nose \_\_\_ Mouth \_\_\_ Eye \_\_\_

### Actual

Nose **20 ft.** Mouth **18 ft.** Eye **11 ft.**

## ABRAHAM LINCOLN



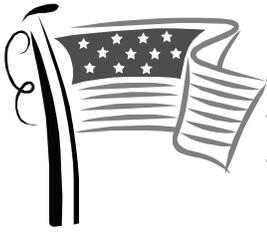
### Predictions

Nose \_\_\_ Mouth \_\_\_ Eye \_\_\_

### Actual

Nose **20 ft.** Mouth **18 ft.** Eye **11 ft.**

1. The length of George Washington's nose on Mount Rushmore is **21 ft.** On the scale model, the length was **21 in.** How many yards is Washington's nose on the sculpture? **7 yds.** How many feet and inches is Washington's nose on the model? **1 ft. 9 in.**
2. The length of each president's nose (except Washington's) on Mount Rushmore is **20 ft.** On the scale model, the length of each nose was **20 in.** How many yards is Jefferson's nose on the sculpture? **6 yds. 2 ft.** How many feet and inches is Washington's nose on the model? **1 ft. 8 in.**
3. The width of each president's eye on Mount Rushmore is **11 ft.** On the scale model, the width of each eye was **11 in.** How many yards wide is each eye on the sculpture? **3 yds. 2 ft.**
4. The width of each president's mouth on Mount Rushmore is **18 ft.** On the scale model, the width of each mouth was **18 in.** How many yards wide is each president's mouth on the sculpture? **3 yds.** How many feet and inches wide is each mouth on the model? **1 ft. 6 in.**



# Mount Rushmore National Memorial Quarter



**Outline of quarter here**

# The United States of America

