# MP1a-Generalize Place Value Understanding 

Content Area: Math
Course(s): Math 4
Time Period: Length:
Status:

Marking Period 1
MP1 Topic 1 1-1 to 1-5
Published

## Essential Questions

- How are greater numbers written?
- How can whole numbers be compared?
- How are place values related?


## Big Ideas

- Read and Write Multi-Digit Whole Numbers: Students read and write numbers using base-ten numerals, number names, and expanded form. Students will draw on these understandings throughout the topic.
- Place-Value Relationships and Comparison: Students use their understanding of place value to learn the generalization that the place value to the left of a given place is 10 times as great as that of the given place.
- Round Whole Numbers: Students use their understanding of place value to round whole numbers. They analyze the place values of digits and use that analysis to determine which multiple of 10,100 , 1,000 , and so forth, a given number is close to.


## Technology Integration

8.2.5.ED.3: Follow step by step directions to assemble a product or solve a problem, using appropriate tools to accomplish the task.

## Activity:

Post an assignment in Google Classroom where students watch a Math Antics Place Value video to introduce the topic. Afterwards, students will complete a Google Classroom assignment to reflect on the video.

## Cross-Curricular Integration

## Integration Area: Social Studies

6.1.5.GeoPP.1: Compare and contrast characteristics of regions in the United States based on culture, economics, and physical characteristics to understand the concept of regionalism.
6.1.5.GeoPP.2: Describe how landforms, climate and weather, and availability of resources have impacted where and how people live and work in different regions of New Jersey and the United States.

## Activity:

Compare population per square mile of different areas within NJ using a map and key (SS text pg 8).

## Enduring Understandings

Number and Operations in Base Ten
4.NBT.A. 1 [M] Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right. For example, recognize that $700 \div 70=10$ by applying concepts of place value and division.
4.NBT.A. 2 [M] Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using >, =, and $<$ symbols to record the results of comparisons.
4.NBT.A. 3 [M] Use place value understanding to round multi-digit whole numbers to any place.

## Mathematical Practices Focus

3. Construct viable arguments and critique the reasoning of others.
