MP1a-Generalize Place Value Understanding

Content Area: **Mathematics**
Course(s): **Math 4 Resource Room**
Time Period: **Marking Period 1**
Length: **MP1 Topic 1 1-1 to 1-5**
Status: **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 draw on these understandings throughout the topic.
- **Place-Value Relationships and Comparison:** Introduce the concept of 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, or 1,000.

CSDT Technology Integration

8.1.5.A.1 Select and use the appropriate digital tools and resources to accomplish a variety of tasks including solving problems.

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 guided Google Classroom reflection.

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.