**K- 8 Grade Level Grade 4**

**Domain Number and Operations in Base Ten 4.NBT**

**Cluster**

**Standards**

{4.NBT.1, 4.NBT.2,

4.NBT.3}

**Generalize place value understanding for multi-digit whole numbers.**

4.NBT.1. 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 ÷ 70 = 10 by applying concepts of place value and division.*

4.NBT.2. Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on the value of the digits in each place, using >, =, and < symbols to record the results of comparisons.

4.NBT.3. Use place value understanding to round multi-digit whole numbers to any place using a variety of estimation methods; be able to describe, compare, and contrast solutions.

**Domains** are intended to convey coherent groupings of content. All domains are underlined.

**Clusters** are groups of related standards. Cluster headings are bolded.

**Standards** define what students should understand and be able to do. Standards are numbered.

**High School** **Conceptual Category**

### Cluster

**Geometric Measurement and Dimension G-GMD**

**Explain volume formulas and use them to solve problems**

G-GMD.1. Explain how to find the formulas for the circumference of a circle, area of a circle, volume of a cylinder, pyramid, and cone.

G-GMD.2. (+) Give an informal argument using Cavalieri’s principle for the formulas for the volume of a sphere and other solid figures.

G-GMD.3. Use volume formulas for cylinders, pyramids, cones, and spheres to solve problems.\*

(+) Additional standards for advanced courses

(\*) Standards with connection to modeling

### Standards

### Geometry Standards

**Domain**

{ G-GMD.1, G-GMD.2, &G-GMD.3}