

4th Grade Math Plan for eLearning

Day 6:

Standard:

4.NSBT.2 Recognize math periods and number patterns within each period to read and write in standard form large numbers through 999,999,999.

I Can Statements:

I can read and write a number in word form, standard, and expanded form up to 1,000,000

I can understand the role of commas to read numerals between 1,000 and 1,000,000

Essential Questions:

How does the position of a digit in a number affect its value?

How can you describe the value of a digit?

Vocabulary:

- Expanded Form - a way of writing to show place value. Example: $400,000 + 60,000 + 3,000 + 700 + 30 + 2$
- Math Period - A number in standard form is separated into groups of three digits, ones, tens, and hundreds, using commas. Each of these groups is called a period.
- Standard Form - Writing a number in the way most commonly accepted
- Word Form - A way of writing numbers to show place value
- Value - Numerical worth or amount
- Repeated subtraction - Subtracting equal groups to find the total amount of groups.

Core Daily Instruction:

Watch the videos below and complete the problems in the Resources section. If you do not have access to a printer, students can work out the problems on a separate sheet of paper.

Video Resources:

<https://www.khanacademy.org/math/arithmetic-home/arith-place-value/arith-how-10-relates-to-place-value/v/multiplying-whole-numbers-by-10>

<https://www.showme.com/sh/?h=6uVQSOW>

<https://edpuzzle.com/media/5d65c07a2cae2640eb43d4de>

Dreambox Time:

20-30 minutes – please message me for their log-in if they do not remember it.

<https://tinyurl.com/dreambox801>

4th Grade Math Plan for eLearning

Resource Students for Mrs. Nowak: Please log into iReady for 20 minutes of Math Instruction. If students do not know their log-in, please reach out to Mrs. Nowak directly at Katherine.nowak@richlandone.org. **This does not apply for most students.**

Day 7:

Standard:

4.NSBT.2 Recognize math periods and number patterns within each period to read and write in standard form large numbers through 999,999,999.

I Can Statements:

I can read and write a number in word form, standard, and expanded form up to 1,000,000

I can understand the role of commas to read numerals between 1,000 and 1,000,000

Essential Questions:

How does the position of a digit in a number affect its value?

How can you describe the value of a digit?

Vocabulary:

- Expanded Form - a way of writing to show place value. Example: $400,000 + 60,000 + 3,000 + 700 + 30 + 2$
- Math Period - A number in standard form is separated into groups of three digits, ones, tens, and hundreds, using commas. Each of these groups is called a period.
- Standard Form - Writing a number in the way most commonly accepted
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Video Resources:

<https://www.khanacademy.org/math/pre-algebra/pre-algebra-arith-prop/pre-algebra-place-value/v/place-value-2>

<https://www.khanacademy.org/math/pre-algebra/pre-algebra-arith-prop/pre-algebra-place-value/v/place-value-3>

<http://studyjams.scholastic.com/studyjams/jams/math/numbers/place-value.htm>

Games to Practice Your Learning:

<https://mrnussbaum.com/place-value-pirates-online-game>

<https://mrnussbaum.com/matching-numbers-between-1-10-000-with-their-written-words-online>

4th Grade Math Plan for eLearning

<https://mrnussbaum.com/converting-place-values-online>

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Day 8:

Standard:

4.NSBT.3 Use rounding as one form of estimation and round whole numbers to any given place value.

I Can Statements:

I can round whole numbers to the nearest 10, 100, 1000 etc.

I can represent rounding using tools such as a number line, base ten blocks, or hundreds charts.

I can accurately explain why a number rounds to another number based on the number's relationship to the nearest multiple of 10, 100, 1000 etc.

I can solve real-world problems or use problem solving tasks that involve rounding to the nearest 10, 100, 1000 etc.

I can identify numbers that can round to a given number (multiple of 10, 100, 1000 etc.)

I can solve word problems or use problem solving tasks involving rounding.

I can use and explain how rounding is helpful in computation estimation.

Essential Questions:

How can a number line help you round numbers?

How can you represent the same number in different ways?

When is estimation useful?

Vocabulary:

- Estimate - To make an approximate or rough calculation, often based on rounding
- Round - Change a number to a more convenient value

Core Daily Instruction:

Watch the videos below and complete the problems in the Resources section. If you do not have access to a printer, you can work out the problems on a separate sheet of paper.

Manipulatives: <https://apps.mathlearningcenter.org/number-line/Interface.html>

4th Grade Math Plan for eLearning

Video Resources:

<http://studyjams.scholastic.com/studyjams/jams/math/numbers/nestimate-whole-numbers.htm>

<https://www.khanacademy.org/math/pre-algebra/pre-algebra-arith-prop/pre-algebra-rounding-whole-numbers/v/rounding-whole-numbers-1>

Games to Practice Your Learning:

http://www.abcya.com/rounding_numbers.htm

<https://www.ixl.com/math/grade-4/rounding>

<http://www.math-play.com/rounding-numbers-pirate/rounding-numbers-pirate-html5.html>

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Day 9:

Standard:

4.NSBT.3 Use rounding as one form of estimation and round whole numbers to any given place value.

I Can Statements:

I can round whole numbers to the nearest 10, 100, 1000 etc.

I can represent rounding using tools such as a number line, base ten blocks, or hundreds charts.

I can accurately explain why a number rounds to another number based on the number's relationship to the nearest multiple of 10, 100, 1000 etc.

I can solve real-world problems or use problem solving tasks that involve rounding to the nearest 10, 100, 1000 etc.

I can identify numbers that can round to a given number (multiple of 10, 100, 1000 etc.)

I can solve word problems or use problem solving tasks involving rounding.

I can use and explain how rounding is helpful in computation estimation.

Essential Questions:

How can a number line help you round numbers?

How can you represent the same number in different ways?

When is estimation useful?

Vocabulary:

- Estimate - To make an approximate or rough calculation, often based on rounding

4th Grade Math Plan for eLearning

- Round - Change a number to a more convenient value

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Video Resources:

<http://studyjams.scholastic.com/studyjams/jams/math/numbers/estimate-whole-numbers.htm>

<https://www.khanacademy.org/math/pre-algebra/pre-algebra-arith-prop/pre-algebra-rounding-whole-numbers/v/rounding-whole-numbers-1>

Games to Practice Your Learning:

http://www.abcya.com/rounding_numbers.htm

<https://www.ixl.com/math/grade-4/rounding>

<http://www.math-play.com/rounding-numbers-pirate/rounding-numbers-pirate-html5.html>

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Day 10:

Standard:

4.NSBT.3 Use rounding as one form of estimation and round whole numbers to any given place value.

I Can Statements:

I can round whole numbers to the nearest 10, 100, 1000 etc.

I can represent rounding using tools such as a number line, base ten blocks, or hundreds charts.

I can accurately explain why a number rounds to another number based on the number's relationship to the nearest multiple of 10, 100, 1000 etc.

I can solve real-world problems or use problem solving tasks that involve rounding to the nearest 10, 100, 1000 etc.

I can identify numbers that can round to a given number (multiple of 10, 100, 1000 etc.)

I can solve word problems or use problem solving tasks involving rounding.

4th Grade Math Plan for eLearning

I can use and explain how rounding is helpful in computation estimation.

Essential Questions:

How can a number line help you round numbers?

How can you represent the same number in different ways?

When is estimation useful?

Vocabulary:

- Estimate - To make an approximate or rough calculation, often based on rounding
- Round - Change a number to a more convenient value

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Video Resources:

<http://studyjams.scholastic.com/studyjams/jams/math/numbers/estimate-whole-numbers.htm>

<https://www.khanacademy.org/math/pre-algebra/pre-algebra-arith-prop/pre-algebra-rounding-whole-numbers/v/rounding-whole-numbers-1>

Games to Practice Your Learning:

http://www.abcya.com/rounding_numbers.htm

<https://www.ixl.com/math/grade-4/rounding>

<http://www.math-play.com/rounding-numbers-pirate/rounding-numbers-pirate-html5.html>

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