



Marietta City Schools District Topic Planner

Fifth Grade

Topic Title	<i>Topic 1: Understand Place Value</i>	Unit duration	<i>10 days</i>
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Big Idea: Numbers Base Ten - Understand the Place Value System

[Georgia Standards of Excellence](#)

- **5.NBT.1** Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.
- **5.NBT.2** Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.
- **5.NBT.3** Read, write, and compare decimals to thousandths.
 - a. Read and write decimals to thousandths using base-ten numerals, number names, and expanded form, e.g., $347.392 = 3 \times 100 + 4 \times 10 + 7 \times 1 + 3 \times (1/10) + 9 \times (1/100) + 2 \times (1/1000)$.
 - b. Compare two decimals to thousandths based on meanings of the digits in each place, using $>$, $=$, and $<$ symbols to record the results of comparisons.

■ **Major work of the grade** □ **Supporting standard** ● **Additional standard**

Informational Links

- [GSE Unit 1 Frameworks: Order of Operations & Whole Numbers](#)
- [GSE Unit 2 Frameworks: Adding and Subtracting with Decimals](#)
- [MCS Math Instructional Framework](#)
- [MCS Math Instructional Framework with Resource Guidance](#)

About the Math

- [GaDOE: Grade 5 Standards Overview Document](#)
- [GaDOE: What Do Standards Look Like in Fifth Grade?](#)

Topic 1: Learning Resources			
5.NBT.1, 5.NBT.2, 5.NBT.3			
Lesson Number/Task/Module	Lesson	Lesson Description	Standards Addressed
Savvas 1-1	Patterns with Exponents and Powers of 10 Savvas pp. 5-8	Students use patterns and properties of multiplication to calculate a product when multiplying by a power of 10; use whole-number exponents to write powers of 10.	5.NBT.1 5.NBT.2
Supplemental 1-1	Quilt Squares	Using blackline masters and quilt squares, students recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left	5.NBT.1 5.NBT.2
Savvas 1-2	Understand Whole Number Place Value Savvas pp. 9-12	Students read and write whole numbers using standard form, expanded form, and number names.	5.NBT.1 5.NBT.3
Supplemental 1-2	Rethinking Expanded Form MIP Module 1 pp.16-17	Students explore writing numbers in expanded form using the values of digits.	5.NBT.1
Savvas 1-3	Decimals to Thousandths Savvas pp. 13-16	Students represent decimals to thousandths as fractions and fractions with denominators of 1,000 as decimals.	5.NBT.1 5.NBT.3 5.NBT.3a
Supplemental 1-3	Decimal Garden	Students will create a garden of vegetables in which each vegetable can be expressed in tenths. Students will determine the fraction and decimal number represented by each type of vegetable	5.NBT.3a

Savvas 1-4	Understand Decimal Place Value Savvas pp. 17 -20	Students read and write numbers with decimals through thousandths using standard form, expanded form, and number names; identify equivalent decimals.	5.NBT.1 5.NBT.3
Savvas 1-5	Compare Decimals Savvas pp. 21- 24	Students use place value to compare decimals through thousandths.	5.NBT.3b
Supplemental 1-5	Decimal Line-Up	Students will place decimal numbers (tenths and hundredths) on a number line and order them.	5.NBT.3b
Savvas 1-6	Round Decimals Savvas pp: 25-28	Students use place value to round decimals to different places.	5.NBT.4
Supplemental 1-6	Rounding to the Nearest Tenth and Hundredth with Models (2 Activities) MIP Module 1 pp.41-45	Students use models and reasoning to round decimals to the nearest tenth and hundredth.	5.NBT.4

Additional Resources

5.NBT.1, 5.NBT.2, 5.NBT.3

Standards Addressed	Lesson	Lesson Description
5.NBT.1	Multiply and Divide by Powers of 10 MIP Module 1 pp.30-33	Students work together to understand the patterns in the placement of the decimal point when a number is multiplied by a power of ten to determine the rule.
5.NBT.2	NZ Math Sherpa	Students use arrays to explore multiples of 10.

Assessment Resources

5.NBT.1, 5.NBT.2, 5.NBT.3

Type	Location	Assessment Description	Standards Addressed
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Formative	MCS Mini	Students use reasoning to explain if a number is ten times larger than itself.	5.NBT.1
Formative	MCS Mini	Students use powers of ten to solve problems.	5.NBT.2
Formative	MIP Module 1 pp.25-26	Students will write decimals using expanded form.	5.NBT.2
Summative	Savvas Topic Assessment TE pp. 37-38	Students will demonstrate how whole numbers and decimals are written, compared, and ordered. Digital or print forms are available through the Savvas platform. Use MDIS to support student needs through data.	5.NBT.1 5.NBT.2 5.NBT.3
Summative	Savvas Topic Performance Task TE pp. 39-40	Students will use a real-life scenario involving weights of fruits & vegetables to write, compare, and order decimals.	5.NBT.1 5.NBT.2 5.NBT.3