

The table below shows the scope and sequence for *ORIGO Stepping Stones 2.0*. Lesson titles with shading are optional for this grade, typically because the content is taught for mastery in an adjacent grade level. These lessons provide opportunities for review, or to introduce and bridge to content in the next grade. Students are not expected to master the content in the shaded lessons. When lesson titles in bold are provided they indicate content that can be taught in place of the shaded lessons.

Lessons from an adjacent grade level

- 4.11.1 Multiplication: Introducing the standard algorithm with two-digit numbers (regrouping tens).
This is an existing grade 4 lesson.
- 4.11.2 Multiplication: Using the standard algorithm with two-digit numbers (regrouping ones).
This is an existing grade 4 lesson.
- 4.11.3 Multiplication: Using the standard algorithm with two-digit numbers (regrouping tens and ones).
This is an existing grade 4 lesson.

Lesson	Title	Math Content
1.1	Number: Reviewing six-digit numbers	Optional. Grade 4 mastery.
1.2	Number: Reading and writing seven-digit numbers	Optional. Grade 4 mastery.
1.3	Number: Locating seven-digit numbers on a number line	Optional. Grade 4 mastery.
1.4	Number: Comparing and ordering seven-digit numbers	Optional. Grade 4 mastery.
1.5	Number: Reading and writing eight- and nine-digit numbers	Optional. Grade 4 mastery.
1.6	Number: Working with millions expressed as fractions	Optional. Grade 4 mastery.
1.7	Number: Rounding large numbers with up to nine-digits	Optional. Grade 4 mastery.
1.8	Algebra: Investigating order with one operation	5.ATO.1
1.9	Algebra: Investigating order with two operations	5.ATO.1
1.10	Algebra: Working with expressions (without parentheses)	5.ATO.1 5.ATO.2
1.11	Algebra: Working with expressions (with parentheses)	5.ATO.1
1.12	Algebra: Working with expressions (with and without parentheses)	5.ATO.1 5.ATO.2
4.11.1	Multiplication: Introducing the standard algorithm with two-digit numbers (regrouping tens)	5.NSBT.5
4.11.2	Multiplication: Using the standard algorithm with two-digit numbers (regrouping ones)	5.NSBT.5
4.11.3	Multiplication: Using the standard algorithm with two-digit numbers (regrouping tens and ones)	5.NSBT.5
2.1	Multiplication: Reviewing the standard algorithm	5.NSBT.5
2.2	Multiplication: Using the standard algorithm with three- and four-digit factors	5.NSBT.5
2.3	Multiplication: Using the standard algorithm with two two-digit factors	5.NSBT.5
2.4	Multiplication: Using the standard algorithm with two- and three-digit factors	5.NSBT.5
2.5	Multiplication: Extending the standard algorithm	5.NSBT.5
2.6	Multiplication: Solving word problems	5.NSBT.5
2.7	Volume: Developing the concept	5.MDA.3 5.MDA.3a
2.8	Volume: Analyzing unit cubes and measuring volume	5.MDA.3 5.MDA.3a 5.MDA.3b 5.MDA.3c
2.9	Volume: Developing a formula	5.MDA.3c
2.10	Volume: Finding the dimensions of prisms with a given volume	5.MDA.3 5.MDA.3c
2.11	Volume: Composing and decomposing prisms	5.MDA.3 5.MDA.3c
2.12	Volume: Solving real-world problems	5.MDA.3b

Lesson	Title	Math Content
3.1	Decimal fractions: Reviewing tenths and hundredths (area model)	5.NSBT.3
3.2	Decimal fractions: Reviewing tenths and hundredths (number line)	5.NSBT.3
3.3	Decimal fractions: Introducing thousandths	5.NSBT.3
3.4	Decimal fractions: Reading and writing thousandths (without zeros and teens)	5.NSBT.3
3.5	Decimal fractions: Reading and writing thousandths (with zeros and teens)	5.NSBT.3
3.6	Decimal fractions: Recording in expanded form	5.NSBT.3
3.7	Decimal fractions: Locating thousandths on a number line	5.NSBT.3
3.8	Decimal fractions: Comparing and ordering thousandths	5.NSBT.3
3.9	Decimal fractions: Comparing and ordering with unequal places	5.NSBT.3
3.10	Decimal fractions: Rounding thousandths	5.NSBT.4
3.11	Decimal fractions: Rounding with unequal decimal places	5.NSBT.4
3.12	Decimal fractions: Interpreting results on a line plot	5.NSBT.4 5.MDA.2
4.1	Common fractions: Reviewing equivalent fractions (related denominators)	5.NSF.1
4.2	Common fractions: Reviewing equivalent fractions (related and unrelated denominators)	5.NSF.1
4.3	Common fractions: Reviewing the relationship with mixed numbers	5.NSF.1
4.4	Common fractions: Converting improper fractions to mixed numbers	5.NSF.1
4.5	Common fractions: Converting mixed numbers to improper fractions	5.NSF.1
4.6	Common fractions: Solving word problems	5.NSF.2
4.7	Length: Converting between inches and feet	5.MDA.1
4.8	Length: Converting customary units	5.MDA.1
4.9	Capacity: Converting customary units	5.MDA.1
4.10	Mass: Converting customary units	5.MDA.1
4.11	Mass/capacity: Solving word problems (customary units)	5.ATO.2
4.12	Mass: Solving real-world problems on a line plot	5.MDA.2
5.1	Decimal fractions: Reviewing addition strategies (without composing)	5.NSBT.7
5.2	Decimal fractions: Adding (with composing)	5.NSBT.7
5.3	Decimal fractions: Using the standard algorithm to add (with composing)	5.NSBT.7
5.4	Decimal fractions: Using the standard algorithm to add more than two addends	5.NSBT.7
5.5	Decimal fractions: Subtracting tenths and hundredths	5.NSBT.7
5.6	Decimal fractions: Using the standard algorithm to subtract	5.NSBT.7
5.7	Decimal fractions: Subtracting tenths (decomposing ones)	5.NSBT.7
5.8	Decimal fractions: Subtracting hundredths (decomposing tenths)	5.NSBT.7
5.9	Decimal fractions: Subtracting (decomposing multiple places)	5.NSBT.7 5.ATO.1
5.10	2D shapes: Identifying parallelograms	5.G.3 5.G.4
5.11	2D shapes: Exploring categories of quadrilaterals	5.G.3 5.G.4
5.12	2D shapes: Identifying categories of triangles	5.G.3

Lesson	Title	Math Content
6.1	Common fractions: Making comparisons and estimates	5.NSF.2
6.2	Common fractions: Reviewing addition strategies (same denominators)	5.NSF.1
6.3	Common fractions: Adding (related denominators)	5.NSF.1
6.4	Common fractions: Adding (unrelated denominators)	5.NSF.1 5.NSF.2
6.5	Common fractions: Adding mixed numbers (related denominators)	5.NSF.1
6.6	Common fractions: Adding mixed numbers (unrelated denominators)	5.NSF.1 5.NSF.2
6.7	Common fractions: Adding mixed numbers with unrelated denominators (composing whole numbers)	5.NSF.1 5.NSF.2
6.8	Division: Reviewing strategies	5.NSBT.6
6.9	Division: Analyzing partitioning strategies	5.NSBT.6
6.10	Division: Three- and four-digit dividends and one-digit divisors (with remainders)	5.NSBT.6 5.NSF.3
6.11	Division: Three- and four-digit dividends with two-digit multiples of five or ten	5.NSBT.6
6.12	Division: Three- and four-digit dividends and any two-digit divisor	5.NSBT.6
7.1	Common fractions: Exploring strategies to subtract (same denominators)	5.NSF.1
7.2	Common fractions: Subtracting (related denominators)	5.NSF.1 5.NSF.2
7.3	Common fractions: Subtracting (unrelated denominators)	5.NSF.1 5.NSF.2
7.4	Common fractions: Subtracting mixed numbers (related denominators)	5.NSF.1
7.5	Common fractions: Subtracting mixed numbers (unrelated denominators)	5.NSF.1
7.6	Common fractions: Subtracting mixed numbers with unrelated denominators (decomposing whole numbers)	5.NSF.1 5.NSF.2
7.7	Common fractions: Reinforcing subtraction strategies (related and unrelated denominators)	5.NSF.1
7.8	Common fractions: Solving word problems involving mixed numbers	5.NSF.2
7.9	Number: Building a picture of one billion and beyond	5.NSBT.1
7.10	Number: Working with exponents	5.NSBT.2 5.NSBT.2a
7.11	Number: Exploring place-value patterns	5.NSBT.2 5.NSBT.2a
7.12	Number: Representing whole numbers using exponents	5.NSBT.2 5.NSBT.2a

Lesson	Title	Math Content
8.1	Common fractions: Reviewing multiplication by whole numbers	5.NSF.1
8.2	Common fractions: Relating unit fractions to division	5.NSF.3 5.NSF.4 5.NSF.4b
8.3	Common fractions: Finding a fraction of a whole number (unit fractions)	5.NSF.4 5.NSF.4b 5.NSF.6 5.ATO.1
8.4	Common fractions: Finding a fraction of a whole number pictorially (non-unit fractions)	5.NSF.4 5.NSF.4b 5.NSF.6
8.5	Common fractions: Finding a fraction of a whole number symbolically (non-unit fractions)	5.NSF.4 5.NSF.4b 5.NSF.6 5.ATO.1
8.6	Common fractions: Solving word problems involving multiplying with whole numbers	5.NSF.5 5.NSF.5a 5.NSF.6 5.ATO.2
8.7	Common fractions: Multiplying two common fractions pictorially	5.NSF.4 5.NSF.4a 5.NSF.4c 5.NSF.5a
8.8	Common fractions: Multiplying two common fractions symbolically	5.NSF.4 5.NSF.4a 5.NSF.5a
8.9	Common fractions: Multiplying whole numbers and mixed numbers	5.NSF.4 5.NSF.4a
8.10	Common fractions: Multiplying common fractions and mixed numbers	5.NSF.4 5.NSF.4a 5.NSF.5a
8.11	Common fractions: Exploring multiplication by fractions less than, equal to, or greater than one	5.NSF.5 5.NSF.5a 5.NSF.5b 5.NSF.5c 5.NSF.5d
8.12	Common fractions: Solving word problems	5.NSF.6
9.1	Common fractions: Relating fractions to division	5.NSF.3
9.2	Common fractions: Dividing a whole number by a unit fraction pictorially	5.NSF.7 5.NSF.7b 5.NSF.8 5.ATO.2
9.3	Common fractions: Dividing a whole number by a unit fraction using multiplication	5.NSF.7 5.NSF.7b 5.NSF.8 5.ATO.2
9.4	Common fractions: Solving word problems involving multiplication or division with a unit fraction	5.NSF.7 5.NSF.8 5.ATO.2
9.5	Common fractions: Dividing a unit fraction by a whole number pictorially	5.NSF.7 5.NSF.7a 5.NSF.8 5.ATO.2
9.6	Common fractions: Dividing a unit fraction by a whole number using multiplication	5.NSF.7 5.NSF.7a 5.NSF.8 5.ATO.1 5.ATO.2
9.7	Common fractions: Solving word problems involving unit fractions	5.NSF.7 5.NSF.8 5.ATO.2
9.8	Length: Converting metric units	5.MDA.1
9.9	Mass: Converting metric units	5.MDA.1
9.10	Capacity: Converting metric units	5.MDA.1
9.11	Length/mass/capacity: Solving word problems (metric units)	5.MDA.1
9.12	Mass: Interpreting a line plot to solve problems	5.MDA.2

Lesson	Title	Math Content
10.1	Decimal fractions: Multiplying by a whole number	5.NSBT.1 5.NSBT.2b 5.NSBT.6
10.2	Decimal fractions: Reinforcing strategies for multiplying by a whole number	5.NSBT.1 5.NSBT.2b 5.NSBT.7
10.3	Decimal fractions: Multiplying tenths by tenths	5.NSBT.7
10.4	Decimal fractions: Multiplying with whole numbers using partial products	5.NSBT.7
10.5	Decimal fractions: Multiplying two decimal fractions using partial products	5.NSBT.7
10.6	Decimal fractions: Dividing whole numbers by decimal fractions	5.NSBT.7
10.7	Decimal fractions: Dividing decimal fractions by whole numbers	5.NSBT.7
10.8	Decimal fractions: Dividing decimal fractions by decimal fractions	5.NSBT.7
10.9	Decimal fractions: Reinforcing the think-multiplication strategy to divide	5.NSBT.7
10.10	Decimal fractions: Adjusting the divisor	5.NSBT.2b 5.NSBT.7
10.11	Decimal fractions: Adjusting the dividend and divisor	5.NSBT.2b 5.NSBT.7
10.12	Decimal fractions: Solving multiplication and division word problems	5.NSBT.7 5.ATO.2
11.1	Algebra: Reviewing number patterns	5.ATO.3 5.ATO.3a
11.2	Algebra: Examining relationships between two numerical patterns	5.ATO.3 5.ATO.3a
11.3	Algebra: Introducing the coordinate plane	5.G.1 5.G.1a 5.G.1b 5.G.1c 5.G.1d
11.4	Algebra: Relating tables to ordered pairs	5.ATO.3b 5.G.1 5.G.1a 5.G.1b 5.G.1c 5.G.1d 5.G.2
11.5	Algebra: Representing patterns on coordinate grids	5.ATO.3b 5.ATO.3c 5.ATO.3d 5.G.2
11.6	Algebra: Interpreting coordinate grids	5.ATO.3 5.ATO.3c 5.ATO.3d 5.G.2
11.7	Multiplication: Using the double-and-halve strategy to multiply dollars and cents	5.NSBT.7
11.8	Multiplication: Using a nearby number to multiply dollars and cents	5.NSBT.7
11.9	Multiplication: Reinforcing strategies to multiply dollars and cents	5.NSBT.7
11.10	Perimeter: Solving word problems	5.MDA.4
11.11	Area: Solving word problems	5.MDA.4
11.12	Volume: Solving word problems	5.MDA.4
12.1	Division: Recording steps (three- and four-digit dividends)	5.NSBT.6
12.2	Division: Developing the standard algorithm	5.NSBT.6
12.3	Division: Introducing the standard algorithm	5.NSBT.6
12.4	Division: Working with the standard algorithm	5.NSBT.6
12.5	Division: Working with the standard algorithm (with remainders)	5.NSBT.6
12.6	Division: Investigating methods to divide by a two-digit multiple of ten	5.NSBT.6
12.7	Division: Working with four-digit dividends and two-digit divisors	5.NSBT.6
12.8	Division: Solving word problems (one- and two-digit divisors)	5.NSBT.6
12.9	Division: Making estimates to solve problems	5.NSBT.7
12.10	Division: Partitioning dollar-and-cent amounts	5.NSBT.7
12.11	Division: Extending partitioning strategies to divide dollar-and-cent amounts	5.NSBT.7
12.12	Division: Calculating unit costs to determine best buys (dollars and cents)	5.NSBT.7