Grade 1 Support

Bridge from Grade K to Grade 1

Grade K Topics 9-14 may not have been covered in Spring, 2020. Three of these Grade K Topics are particularly important for success in Grade 1: Topics 9, 10, 12, and 14.

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Grade K TOPICS

1. Numbers 0 to 5
2. Compare Numbers 0 to 5
3. Numbers 6 to 10
4. Compare Numbers 0 to 10
5. Classify and Count Data
6. Understand Addition
7. Understand Subtraction
8. More Addition and Subtraction
9. Count Numbers to 20
10. Compose and Decompose Numbers 11 to 19
11. Count Numbers to 100
12. Identify and Describe Shapes
13. Analyze, Compare, and Create Shapes
14. Describe and Compare Measurable Attributes

Key Grade K Lessons to Include in Grade 1

Topic 9

The content of this topic is assumed at the start of Grade 1. Lessons 9-1 through 9-7 are all important. **Teach before Grade 1 Topic 3.**

Topic 10

The content of this topic is assumed at the start of Grade 1. Lessons 10-1 through 10-7 are all important. **Teach before Grade 1 Topic 3.**

Topic 11

All the counting work to 100 is revisited at Grade 1 and extended to 120.

Topic 12

Most of the work in this topic is revisited at Grade 1. **Lesson 12-6 is good to launch Topic 14 at Grade 1.**

Topic 13

Essentially all the work in this topic is revisited at Grade 1.

Topic 14

All the work in this topic is important in building an understanding of the measurement process and measurable attributes. Lessons 14-1 through 14-6 should not be omitted. **Teach before Grade 1 Topic 12.**

Grade 1 TOPICS

1. Understand Addition and Subtraction
2. Fluently Add and Subtract Within 10
3. Addition Facts to 20: Use Strategies
4. Subtraction Facts to 20: Use Strategies
5. Work with Addition and Subtraction Equations
6. Represent and Interpret Data
7. Extend the Counting Sequence
8. Understand Place Value
9. Compare Two-Digit Numbers
10. Use Models and Strategies to Add Tens and Ones
11. Use Models and Strategies to Subtract Tens
12. Measure Lengths
13. Time and Money
14. Reason with Shapes and Their Attributes
15. Equal Shares of Circles and Rectangles

Grade 1 Pacing Recommendation

There are **21 Key Grade K Lessons** from Topics 9-14 that you may need to incorporate into your Grade 1 lesson plans. Depending on your instructional needs, you may reduce the time allotted to additional program resources.

Grade 2 Support

Bridge from Grade 1 to Grade 2

Grade 1 Topics 10-15 may not have been covered in Spring, 2020. Five of these Grade 1 Topics are particularly important for success in Grade 2: Topics 10, 11, 12, 13, and 14.

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Grade 1 TOPICS

1. Understand Addition and Subtraction
2. Fluently Add and Subtract Within 10
3. Addition Facts to 20: Use Strategies
4. Subtraction Facts to 20: Use Strategies
5. Work with Addition and Subtraction Equations
6. Represent and Interpret Data
7. Extend the Counting Sequence
8. Understand Place Value
9. Compare Two-Digit Numbers
10. Use Models and Strategies to Add Tens and Ones
11. Use Models and Strategies to Subtract Tens
12. Measure Lengths
13. Time and Money
14. Reason with Shapes and Their Attributes
15. Equal Shares of Circles and Rectangles

Key Grade 1 Lessons to Include in Grade 2

Topic 10

A focus on 1- and 2-digit addition is important to develop, e.g. Lesson 10-6 includes making a ten for 28 + 6, which does not get addressed at grade 2. Lessons 10-1, 10-2, 10-5 and 10-6 should all be included. **Teach before Grade 2 Topic 3.**

Topic 11

This topic at Grade 1 is limited to subtracting tens (e.g., 45 – 20) and Grade 2 starts with subtracting tens and ones (e.g., 57 – 23). Lessons 11-1 through 11-4 introduce the subtraction work at Grade 2 and should be included. The remaining lessons can be omitted. **Teach before Grade 2 Topic 5.**

Topic 12

The attribute of length and finding length with non-standard units are developed at Grade 1, but these ideas can be incorporated in the work at Grade 2. Lesson 12-3 should be included. **Teach before Grade 2 Topic 12.**

Topic 13

The lessons on money at Grade 1 can be omitted. Lessons 13-3 through 13-5 are important foundational ideas for the work with time at Grade 2. **Teach before Grade 2 Topic 8.**

Topic 14

Every lesson in this topic has students reasoning about shapes. Lessons 14-1 through 14-9 are important to include. **Taught before or with Topic 13 at Grade 2.**

Topic 15

All the work in this topic is revisited at Grade 2.

Grade 2 TOPICS

1. Fluently Add and Subtract Within 20
2. Work with Equal Groups
3. Add Within 100 Using Strategies
4. Fluently Add Within 100
5. Subtract Within 100 Using Strategies
6. Fluently Subtract Within 100
7. More Solving Problems Involving Addition and Subtraction
8. Work with Time and Money
9. Numbers to 1,000
10. Add Within 1,000 Using Models and Strategies
11. Subtract Within 1,000 Using Models and Strategies
12. Measuring Length
13. Shapes and Their Attributes
14. More Addition, Subtraction, and Length
15. Graphs and Data

Grade 2 Pacing Recommendation

There are **21 Key Grade 1 Lessons** from Topics 10-15 that you may need to incorporate into your Grade 2 lesson plans. Depending on your instructional needs, you may reduce the time allotted to additional program resources.

Grade 3 Support

Bridge from Grade 2 to Grade 3

Grade 2 Topics 10-15 may not have been covered in Spring, 2020. Four of these Grade 2 Topics are particularly important for success in Grade 3: Topics 10, 11, 12, and 13.

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Grade 2 TOPICS

1. Fluently Add and Subtract Within 20
2. Work with Equal Groups
3. Add Within 100 Using Strategies
4. Fluently Add Within 100
5. Subtract Within 100 Using Strategies
6. Fluently Subtract Within 100
7. More Solving Problems Involving Addition and Subtraction
8. Work with Time and Money
9. Numbers to 1,000
10. Add Within 1,000 Using Models and Strategies
11. Subtract Within 1,000 Using Models and Strategies
12. Measuring Length
13. Shapes and Their Attributes
14. More Addition, Subtraction, and Length
15. Graphs and Data

Key Grade 2 Lessons to Include in Grade 3

Topic 10

Grades 2 and 3 develop addition of two 3-digit numbers. Grade 2 emphasizes models and number lines and Grade 3 emphasizes partial sums. Lessons 10-1 through 10-4 in Grade 2 are helpful to cover before starting Topic 9 at Grade 3. All other lessons in Grade 2 Topic 10 can be omitted. **Teach before Grade 3 Topic 9.**

Topic 11

The development parallels that for addition. Lessons 11-1 through 11-4 are helpful to cover before starting Topic 9 at Grade 3. All other lessons in Grade 2 Topic 10 can be omitted. **Teach before Grade 3 Topic 9.**

Topic 12

Length is not developed at Grade 3 so Lessons 12-1 through 12-8 at Grade 2 should be developed. **Teach anytime in Grade 3.**

Topic 13

Lessons 13-1 through 13-4 develop foundational ideas assumed for the work in Grade 3. The lessons on equal shares can be omitted as this idea is revisited at Grade 3. **Teach before Grade 3 Topic 15.**

Topic 14

Although measurement contexts are used for the lessons in this topic, the focus is on addition and subtraction using skills developed earlier in the year.

Topic 15

Line plots, bar graphs and picture graphs, introduced at Grade 2, are revisited at Grade 3.

Grade 3 TOPICS

1. Understand Multiplication and Division of Whole Numbers
2. Multiplication Facts: Use Patterns
3. Apply Properties: Multiplication Facts for 3, 4, 6, 7, 8
4. Use Multiplication to Divide: Division Facts
5. Fluently Multiply and Divide within 100
6. Connect Area to Multiplication and Addition
7. Represent and Interpret Data
8. Use Strategies and Properties to Add and Subtract
9. Fluently Add and Subtract within 1,000
10. Multiply by Multiples of 10
11. Use Operations with Whole Numbers to Solve Problems
12. Understand Fractions as Numbers
13. Fraction Equivalence and Comparison
14. Solve Time, Capacity, and Mass Problems
15. Attributes of Two-Dimensional Shapes
16. Solve Perimeter Problems

Grade 3 Pacing Recommendation

There are **20 Key Grade 2 Lessons** from Topics 10-15 that you may need to incorporate into your Grade 3 lesson plans. Depending on your instructional needs, you may reduce the time allotted to additional program resources.

Grade 4 Support
Bridge from Grade 3 to Grade 4

Grade 3 Topics 11-16 may not have been covered in Spring, 2020. Four of these Grade 3 Topics are particularly important for success in Grade 4: Topics 12, 13, 14, and 16.

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Grade 3 TOPICS

1. Understand Multiplication and Division of Whole Numbers
2. Multiplication Facts: Use Patterns
3. Apply Properties: Multiplication Facts for 3, 4, 6, 7, 8
4. Use Multiplication to Divide: Division Facts
5. Fluently Multiply and Divide within 100
6. Connect Area to Multiplication and Addition
7. Represent and Interpret Data
8. Use Strategies and Properties to Add and Subtract
9. Fluently Add and Subtract within 1,000
10. Multiply by Multiples of 10
11. Use Operations with Whole Numbers to Solve Problems
12. Understand Fractions as Numbers
13. Fraction Equivalence and Comparison
14. Solve Time, Capacity, and Mass Problems
15. Attributes of Two-Dimensional Shapes
16. Solve Perimeter Problems

Key Grade 3 Lessons to Include in Grade 4

Topic 11
All lessons involve applications of skills developed in earlier topics at Grade 3. Problem solving with all the same operations is revisited in Grade 4.

Topic 12
Fraction meanings, including mixed numbers, are developed in Lessons 12-1 through 12-5. These ideas are not developed again in Grade 4, but they are used in Grade 4. The line plot lessons can be omitted as these are developed again in Grade 4. **Teach before Grade 4 Topic 8.**

Topic 13
Lessons 13-3 and 13-4 develop the generalizations about comparing fractions with the same numerators or same denominators. Lesson 13-7 interprets whole numbers as fractions and is not revisited at Grade 4. Many of the other ideas in this topic are revisited at Grade 4. **Teach before Grade 4 Topic 8.**

Topic 14
Lessons 14-1 through 14-3 develop and use units of time, which is not included at Grade 4. The work with liquid volume (capacity), and mass is revisited at Grade 4. **Teach before or with Grade 4 Topic 13.**

Topic 15
All this content is revisited at Grade 4.

Topic 16
Lessons 16-1 through 16-5 are important to build an understanding of perimeter and area. There is only one lesson on perimeter and area at Grade 4. **Teach before or with Grade 4 Topic 13.**

Grade 4 TOPICS

1. Generalize Place Value Understanding
2. Fluently Add and Subtract Multi-Digit Whole Numbers
3. Use Strategies and Properties to Multiply by 1-Digit Numbers
4. Use Strategies and Properties to Multiply by 2-Digit Numbers
5. Use Strategies and Properties to Divide by 1-Digit Numbers
6. Use Operations with Whole Numbers to Solve Problems
7. Factors and Multiples
8. Extend Understanding of Fraction Equivalence and Ordering
9. Understand Addition and Subtraction of Fractions
10. Extend Multiplication Concepts to Fractions
11. Represent and Interpret Data on Line Plots
12. Understand and Compare Decimals
13. Measurement: Find Equivalence in Units of Measure
14. Algebra: Generate and Analyze Patterns
15. Geometric Measurement: Understand Concepts of Angles and Angle Measurement
16. Lines, Angles, and Shapes

Grade 4 Pacing Recommendation
There are **16 Key Grade 3 Lessons** from Topics 11–16 that you may need to incorporate into your Grade 4 lesson plans. Depending on your instructional needs, you may reduce the time allotted to additional program resources.

Grade 5 Support

Bridge from Grade 4 to Grade 5

Grade 4 Topics 11-16 may not have been covered in Spring, 2020. Four of these Grade 4 Topics are particularly important for success in Grade 5: Topics 12, 14, 15, and 16.

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Grade 4 TOPICS

1. Generalize Place Value Understanding
2. Fluently Add and Subtract Multi-Digit Whole Numbers
3. Use Strategies and Properties to Multiply by 1-Digit Numbers
4. Use Strategies and Properties to Multiply by 2-Digit Numbers
5. Use Strategies and Properties to Divide by 1-Digit Numbers
6. Use Operations with Whole Numbers to Solve Problems
7. Factors and Multiples
8. Extend Understanding of Fraction Equivalence and Ordering
9. Understand Addition and Subtraction of Fractions
10. Extend Multiplication Concepts to Fractions
11. Represent and Interpret Data on Line Plots
12. Understand and Compare Decimals
13. Measurement: Find Equivalence in Units of Measure
14. Algebra: Generate and Analyze Patterns
15. Geometric Measurement: Understand Concepts of Angles and Angle Measurement
16. Lines, Angles, and Shapes

Key Grade 4 Lessons to Include in Grade 5

Topic 11
All the content in this topic is revisited in Grade 5.

Topic 12
The decimal and fraction connection (Lessons 12-1 and 12-2) occurs at Grade 4 and not at Grade 5 so this is important content to include. All other content in this topic is revisited at Grade 5. **Teach before Grade 5 Topic 1.**

Topic 13
Much of this content is revisited in Grade 5. Perimeter and area problems are included in this topic; however, these are not new concepts. This topic can be omitted.

Topic 14
Lessons 14-1 through 14-4 give a good foundation for Grade 5 Topic 15 on Algebra: Analyze Patterns and Relationships. The work with rules at Grade 4 is not repeated at Grade 5. **Teach before Grade 5 Topic 15.**

Topic 15
Lessons 15-1 through 15-4 should be developed. This content is needed after Grade 5. **Teach anytime during Grade 5.**

Topic 16
The lessons on lines, 16-1, and Line Symmetry, 16-4 and 16-5, should be developed. This content is needed after Grade 5. **Teach anytime during Grade 5.**
The work on classifying triangles and quadrilaterals can be omitted as these topics are revisited at Grade 5.

Grade 5 TOPICS

1. Understand Place Value
2. Use Models and Strategies to Add and Subtract Decimals
3. Fluently Multiply Multi-Digit Whole Numbers
4. Use Models and Strategies to Multiply Decimals
5. Use Models and Strategies to Divide Whole Numbers
6. Use Models and Strategies to Divide Decimals
7. Use Equivalent Fractions to Add and Subtract Fractions
8. Apply Understanding of Multiplication to Multiply Fractions
9. Apply Understanding of Division to Divide Fractions
10. Represent and Interpret Data
11. Understand Volume Concepts
12. Convert Measurements
13. Write and Interpret Numerical Expressions
14. Graph Points on the Coordinate Plane
15. Algebra: Analyze Patterns and Relationships
16. Geometric Measurement: Classify Two-Dimensional Figures

Grade 5 Pacing Recommendation
There are **13 Key Grade 4 Lessons** from Topics 11–16 that you may need to incorporate into your Grade 5 lesson plans. Depending on your instructional needs, you may reduce the time allotted to additional program resources.

Grade 6 Support

Bridge from Grade 5 to Grade 6

Grade 5 Topics 14-16 may not have been covered in Spring, 2020. Two of these Grade 5 Topics are particularly important for success in Grade 6: Topics 14 and 16.

Grade 5 TOPICS

1. Understand Place Value
2. Use Models and Strategies to Add and Subtract Decimals
3. Fluently Multiply Multi-Digit Whole Numbers
4. Use Models and Strategies to Multiply Decimals
5. Use Models and Strategies to Divide Whole Numbers
6. Use Models and Strategies to Divide Decimals
7. Use Equivalent Fractions to Add and Subtract Fractions
8. Apply Understanding of Multiplication to Multiply Fractions
9. Apply Understanding of Division to Divide Fractions
10. Represent and Interpret Data
11. Understand Volume Concepts
12. Convert Measurements
13. Write and Interpret Numerical Expressions
14. Graph Points on the Coordinate Plane
15. Algebra: Analyze Patterns and Relationships
16. Geometric Measurement: Classify Two-Dimensional Figures

Key Grade 5 Lessons to Include in Grade 6

Topic 14

An understanding of the coordinate system, at least in the first quadrant, is needed before introduction to the coordinate system for all four quadrants. **Teach Grade 5 Lessons 14-1 and 14-2 before Grade 6 Lesson 2-4.**

Topic 15

This content in revisited in Grade 6.

Topic 16

Students are expected to know the classifications of triangles and quadrilaterals and the critical definitions and vocabulary related to these figures. **Teach Grade 5 Lessons 16-1, 16-2, and 16-3 before Grade 6 Topic 7.**

Grade 6 TOPICS

1. Use Positive Rational Numbers
2. Integers and Rational Numbers
3. Numeric and Algebraic Expressions
4. Represent and Solve Equations and Inequalities
5. Understand and Use Ratio and Rate
6. Understand and Use Percent
7. Solve Area, Surface Area, and Volume Problems
8. Display, Describe, and Summarize Data

Grade 6 Pacing Recommendation

There are **5 Key Grade 5 Lessons** from Topics 14–16 that you may need to incorporate into your Grade 6 lesson plans. Depending on your instructional needs, you may reduce the time allotted to additional program resources.

Grade 7 Support

Bridge from Grade 6 to Grade 7

Grade 6 Topics 6-8 may not have been covered in Spring, 2020. All these Grade 6 Topics are important for success in Grade 7.

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Grade 6 TOPICS

1. Use Positive Rational Numbers
2. Integers and Rational Numbers
3. Numeric and Algebraic Expressions
4. Represent and Solve Equations and Inequalities
5. Understand and Use Ratio and Rate
6. Understand and Use Percent
7. Solve Area, Surface Area, and Volume Problems
8. Display, Describe, and Summarize Data

Key Grade 6 Lessons to Include in Grade 7

Topic 6

Students need an understanding of percent, relationships among fractions, decimals, and percents, and should be able to represent and estimate percents in order to be well prepared for the content in Grade 7 Topic 3. **Teach Grade 6 Lessons 6-1 through 6-4 before Grade 7 Topic 3.**

Topic 7

This critical content develops understanding of finding areas of two-dimensional figures by composing and decomposing them into simpler shapes. This is a critical understanding, as they apply this knowledge to composite shapes and to find surface areas of three-dimensional solids. **Teach Grade 6 Lessons 7-1, 7-3, 7-5, 7-6, and 7-7 before Grade 7 Lesson 8-8.**

Topic 8

This critical content establishes a strong basis for quantitative (measures of center, spread, and variability) and qualitative (overall shape) analysis of data sets represented in histograms, dot plots and box plots. **Teach Grade 6 Lessons 8-2, 8-3, 8-4, 8-5, and 8-7 before Grade 7 Lesson 6-2.**

Grade 7 TOPICS

1. Rational Number Operations
2. Analyze and Use Proportional Relationships
3. Analyze and Solve Percent Problems
4. Generate Equivalent Expressions
5. Solve Problems Using Equations and Inequalities
6. Use Sampling to Draw Inferences About Populations
7. Probability
8. Solve Problems Involving Geometry

Grade 7 Pacing Recommendation

There are **14 Key Grade 6 Lessons** from Topics 6-8 that you may need to incorporate into your Grade 7 lesson plans. Depending on your instructional needs, you may reduce the time allotted to additional program resources.

Grade 8 Support

Bridge from Grade 7 to Grade 8

Grade 7 Topics 6-8 may not have been covered in Spring, 2020. All these Grade 7 Topics are important for success in Grade 8.

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Grade 7 TOPICS

1. Rational Number Operations
2. Analyze and Use Proportional Relationships
3. Analyze and Solve Percent Problems
4. Generate Equivalent Expressions
5. Solve Problems Using Equations and Inequalities
6. Use Sampling to Draw Inferences About Populations
7. Probability
8. Solve Problems Involving Geometry

Key Grade 7 Lessons to Include in Grade 8

Topic 6

This key content is critical for continued development of students' data experiences. Without these lessons, students miss out on using statistical measures to draw inferences about a population or to draw inferences comparing two populations. **Teach Grade 7 Lessons 6-1 through 6-4 anytime during Grade 8.**

Topic 7

Providing a foundational understanding of probability concepts is an important par of a strong middle school curriculum. These lessons introduce and develop a basic understanding of probability that will be further developed in high school. **Teach Grade 7 Lessons 7-1, 7-2, and 7-6 anytime during Grade 8.**

Topic 8

The language and mathematical representations of scale is important for describing dilations. **Teach Grade 7 Lessons 8-1 before Grade 8 Lesson 6-6.**

Understanding the circumference and area of a circle is critical for the work with surface areas and volumes of cylinders. **Teach Grade 7 Lesson 8-5 and 8-6 before Grade 8 Topic 8.**

By combining the concepts of the G7 lessons with the Grade 8 Topic 8 lessons, students will find surface areas and volumes of two- and three-dimensional composite figures. **Teach Grade 7 Lesson 8-8 and 8-9 before Grade 8 Topic 8.**

Grade 8 TOPICS

1. Real Numbers
2. Analyze and Solve Linear Equations
3. Use Functions to Model Relationships
4. Investigate Bivariate Data
5. Analyze and Solve Systems of Linear Equations
6. Congruence and Similarity
7. Understand and Apply the Pythagorean Theorem
8. Solve Problems Involving Surface Area and Volume

Grade 8 Pacing Recommendation

There are **12 Key Grade 7 Lessons** from Topics 6-8 that you may need to incorporate into your Grade 8 lesson plans. Depending on your instructional needs, you may reduce the time allotted to additional program resources.

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