

5th Grade Mathematics Pacing Chart

Correlated to BEEP Lessons

IMPORTANT:

- Some Harcourt Math lessons have been combined on this chart to cover all concepts before the administration of the FCAT.
- Some Harcourt Math lessons that are not FCAT tested were not included on this chart. They may be used for enrichment (see attached list).
- On chapter tests, be sure to test only concepts that have been taught.
- The instruction of multiplication and division facts should be ongoing from August – June.

PLEASE NOTE:

In some lessons, more than one concept is taught and may be beyond the FCAT Content Limits. Refer to the General Content Limits*, pages 13-18 in the DOE-FCAT Mathematics, Grades 3-5 Test Item and Performance Task Specifications booklet.

*Included with Pacing Chart for Grades 3-5

5th Grade Mathematics Pacing Chart

Correlated to BEEP Lessons

001 Lesson 13.1 Divisibility Review multiplication facts	002 Lesson 13.2 G.C.F	003 Lesson 13.3 Multiples and the Least Common Multiple	004 Lesson 13.4 Problem Solving Skill: Identify Relationships	005 Review/ Chapter 13 Test
006 Lessons 15.1 - 15.2 Equivalent Fractions; Simplest Form Review factors and multiples	007 Lesson 15.3 Understand Mixed Numbers	008 Lesson 15.4 Compare and Order Fractions and Mixed Numbers	009 Lesson 2.1 Decimal Place Value	010 Lesson 15.5 Problem Solving Strategy: Make a Model
011 Lesson 15.6 Relate Fractions and Decimals	012 Review/ Chapter 15 Test	013 Lessons 29.1 - 29.2 Understand Percent; Relate Decimals and Percents	014 Lesson 29.3 Fractions, Decimals, and Percents	015 Lesson 29.4 Compare Fractions, Decimals, and Percents Review divisibility rules
016 Lesson 29.5 Find a Percent of a Number	017 Lesson 29.6 Problem Solving Strategy: Make a Graph Introduce circle graphs	018 Review/ Chapter 29 Test	019 Lessons 1.1 - 1.2 Understand Place Value to Millions and Billions	020 Lessons 1.3 - 1.4 Benchmark Numbers; Compare and Order
021 Lesson 1.5 Problem Solving Skill: Use a Table	022 Review/ Chapter 1 Test	023 Lesson 2.2 Equivalent Decimals	024 Lesson 2.3 Compare and Order Decimals	025 Lesson 2.4 Problem Solving Skill: Draw Conclusions

Key: Number Sense Measurement Geometry Algebraic Thinking Data Analysis & Probability

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026 Review/ Chapter 2 Test	027 Lessons 3.1 - 3.2 Round Whole Numbers and Decimals	028 Lesson 3.3 Estimate Sums and Differences	029 Lessons 3.4 - 3.5 Add and Subtract Whole Numbers and Decimals	030 Lesson 3.6 Choose a Method
031 Lesson 3.7 Problem Solving Strategy: Use Logical Reasoning	032 Review/ Chapter 3 Test	033 Lesson 4.1 Expressions and Variables	034 Lesson 4.2 Write Equations	035 Lesson 4.3 Solve Equations
036 Lesson 4.4 Inequalities	037 Lesson 4.5 Mental Math: Use the Properties	038 Lesson 4.6 Problem Solving Strategy: Write an Equation	039 Review/ Chapter 4 Test	040 Lesson 5.1 Collect and Organize Data
041 Lesson 5.2 Finding Mean Review addition and division	042 Lessons 5.3 - 5.4 Find the Median and Mode; Make a Graph	043 Lesson 5.5 Analyze Graphs	044 Review/ Chapter 5 Test	045 Lesson 6.1 Choose a Reasonable Scale
046 Lesson 6.2 Graph Ordered Pairs	047 Lesson 6.3 Make Line Graphs	048 Lesson 6.4 Problem Solving Strategy: Draw a Diagram	049 Lesson 6.6 Choose the Appropriate Graph	050 Lesson 23.1 Graph Relationships

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051 Lesson 23.3 Transformations on the Coordinate Plane	052 Review/ Chapter 6 Test	053 Lesson 20.1 Lines and Angles	054 Lessons 20.2 - 20.3 Measure and Draw Angles; Angles and Polygons	055 Lessons 20.4 <u>and</u> 25.4 Circles and Circumference
056 Lesson 20.5 Congruent and Similar Figures	057 Lesson 20.6 Symmetric Figures	058 Lesson 20.7 Problem Solving Strategy: Find a Pattern	059 Review/ Chapter 20 Test	060 Lesson 21.1 Triangles
061 Lesson 21.2 Quadrilaterals	062 Lesson 21.3 Transformations and Tessellations	063 Lesson 21.4 Solid Figures	064 Lesson 21.6 Problem Solving Strategy: Make a Model	065 Review/ Chapter 21 Test
066 Lesson 24.1 Customary Length	067 Lesson 24.2 Metric Length	068 Lesson 24.3 Change Linear Units	069 Lesson 24.4 Customary Capacity and Weight	070 Lesson 24.5 Metric Capacity and Mass
071 Lesson 24.6 Time and Temperature	072 Lesson 24.7 Problem Solving Skill: Estimate or Actual Measurement	073 Review/ Chapter 24 Test	074 Lessons 25.1 - 25.2 Estimate and Find Perimeter	075 Lesson 25.3 Problem Solving Skill: Make Generalizations

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076 Lessons 26.1 - 26.2 Estimate Area of Squares and Rectangles	077 Lesson 26.3 Relate Perimeter and Area	078 Lesson 26.4 Area of Triangles	079 Review/ Chapters 25/26 Test	080 Lesson 27.1 Nets for Solid Figures Review polygons and their attributes
081 Lesson 27.3 Estimate and Find Volume Review factors and multiples	082 Lesson 27.4 Measure Perimeter, Area, and Volume	083 Lesson 27.5 Problem Solving Skill: Use a Formula	084 Review/ Chapter 27 Test	085 Lesson 12.1 Expressions and Equations
086 Lesson 12.2 Order of Operations	087 Lesson 12.3 Number Patterns	088 Lesson 12.4 Functions	089 Lesson 12.5 Problem Solving Strategy: Compare Strategies	090 Lesson 12.6 Use Multiplication Properties
091 Lesson 12.7 The Distributive Property	092 Review/ Chapter 12 Test	093 Lesson 16.2 Add and Subtract Unlike Fractions	094 Lessons 17.1 - 17.2 Add and Subtract Mixed Numbers	095 Lessons 18.1 - 18.3 Multiply Fractions, Whole Numbers, and Mixed Numbers
096 Lesson 18.5 Problem Solving Skill: Sequence and Prioritize Information	097 Review/ Chapters 17/18 Test	098 Lessons 30.1 - 30.3 Probability Experiments, Fractions, and Predictions	099 Lesson 30.4 Tree Diagrams	100 Lesson 30.5 Arrangements and Combinations

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101 Lesson 30.6 Problem Solving Strategy: Make an Organized List	102 Review/ Chapter 30 Test	103 Lessons 7.1 – 7.3 Patterns in Multiples; Multiply by 1- and 2- Digit Numbers	104 Lessons 8.1 – 8.2 Multiply Decimals and Whole Numbers; Patterns in Decimal Factors and Products	105 Lessons 8.3 – 8.4 Model Decimal Multiplication; Place the Decimal Point
106 Lesson 8.5 Zeros in the Product	107 Review/ Chapters 7/8 Test	108 Lesson 9.1 Estimate Quotients	109 Lesson 9.2 Divide 3-Digit Dividends	110 Lesson 9.3 Zeros in Division
111 Lessons 10.1 <u>and</u> 11.1 Patterns in Decimal Division	112 Lesson 10.2 Estimate Quotients	113 Lesson 10.3 Divide by 2-Digit Divisors	114 Lesson 10.4 Correcting Quotients	115 Lesson 10.5 Practice Division
116 Lesson 10.6 Problem Solving Strategy	117 Review/ Chapters 9/10 Test	118 Lesson 16.3 Estimate Sums and Differences	119 Lessons 16.4 - 16.5 Use Common Denominators; Use the LCD	120 Lesson 16.6 Problem Solving Strategy: Work Backward
121 Review/ Chapter 16 Test	122 <u>AFTER FCAT</u> Lesson 19.1 Explore Division of Fractions	123 Lessons 19.2 – 19.3 Reciprocals; Divide Whole Numbers by Fractions	124 Lesson 19.4 Divide Fractions	125 Lesson 19.5 Problem Solving Strategy: Solve a Simpler Problem

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126 Review/ Chapter 19 Test	127 Lesson 23.1 Graph Relationships	128 Lessons 23.2 – 23.3 Graph Integers and Transformations on the Coordinate Plane	129 Lesson 23.4 Problem Solving Skill: Relevant or Irrelevant Information	130 Review/ Chapter 23 Test
131 Lesson 11.2 Decimal Division	132 Lesson 11.3 Divide Decimals by Whole Numbers	133 Lesson 11.4 Problem Solving Skill: Choose the Operation	134 Review/ Chapter 11 Test	135 Lesson 14.1 Introduction to Exponents
136 Lesson 14.2 Exponents and Expanded Form	137 Lesson 14.3 Prime and Composite Numbers	138 Lesson 14.4 Prime Factors and Exponents	139 Lesson 14.5 Problem Solving Strategy: Make a Table	140 Review/ Chapter 14 Test
141 Lesson 22.1 Understand Integers	142 Lesson 22.2 Compare and Order Integers	143 Lesson 22.3 Addition and Subtraction of Integers	144 Lesson 22.4 Problem Solving Strategy: Draw a Diagram	145 Review/ Chapter 22 Test
146 Lesson 26.5 Area of Parallelograms	147 Lesson 26.6 Problem Solving Strategy: Solve a Simpler Problem	148 Lesson 27.2 Surface Area	149 Lessons 28.1 – 28.2 Understand and Express Ratios	150 Lesson 28.3 Ratio and Proportions Review/ Chapter 28 Test

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Grade 5 General Content Limits

The content limits described below are applicable to all items developed for Grade 5. The content limit defined in the individual benchmark specifications, however, may be an expansion of further restriction of these limits.

WHOLE NUMBERS

- Items should not exceed two operations.
- Place values should range from ones through hundred millions.

Addition

- Items should not exceed 4 addends.
- Addends should not exceed 4 digits.
- Items with 4 addends should not use 4-digit numbers and vice versa

Subtraction

- Numbers should not exceed 4 digits.

Multiplication

- Products should not exceed 6 digits.

Division

- Divisors should not exceed 2 digits, and dividends should not exceed 4 digits.

DECIMALS

- Place values should range from tenths through thousands.

Addition

- Items should not exceed 4 addends.
- Addends should not exceed 4 digits.
- Items with 4 addends should not use 4-digit numbers and vice versa.

Subtraction

- Numbers should not exceed 4 digits.

Multiplication

- Products should not exceed 6 digits.

Division

- Divisors should not exceed 2 digits and must be whole numbers
- Numbers should not exceed 4 digits.

FRACTIONS

- Items should have denominators of 2, 3, 4, 5, 6, 8, 10, 12, 16, 20, 25, 50, 75, 100, or 1000.

Addition

- Items should not exceed 3 addends.
- Unlike denominators must be common multiples.

Subtraction

- Unlike denominators must be common multiples.

Multiplication

- See benchmark

Division

- Not assessed at Grade 5

PERCENT

- Items will be limited to percents that are multiples of 5 up to and including 100

MEASUREMENT

- Items will be limited to assessment of length, weight, time, temperature, perimeter, area, capacity, volume, and straight angles.

GRIDDED-RESPONSE ITEMS

- Answers may not exceed 4 digits.

Grade 5 Mathematics BEEP Pacing Chart Additional Lessons *

Lesson 7.4
Choose a Method

Lesson 7.5
Problem Solving Skill:
Evaluate Answers for Reasonableness

Lesson 8.6
Problem Solving Skill:
Making Decisions

Lesson 9.4
Choose a Method

Lesson 9.5
Problem Solving Skill:
Interpret the Remainder

Lesson 11.5
Divide to Change a Fraction to a Decimal

Lesson 17.3
Hands on Subtraction and Renaming

Lesson 17.4
Practice with Mixed Numbers

Lesson 17.5
Problem Solving Skill:
Multistep Problems

Lesson 28.4
Scale Drawings

Lesson 28.5
Problem Solving Skill:
Too Much/Too Little Information

* These lessons are not included on the BEEP lesson pacing chart. Feel free to include them for remediation or enrichment as needed.