

4th 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.
- 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

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

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Correlated to BEEP Lessons

001 Lesson 1.1 Understand Place Value	002 Lessons 1.2 - 1.3 Place Value Through Millions	003 Lesson 1.4 Benchmark Numbers	004 Lesson 1.5 Problem Solving Skill: Use a Graph	005 Review/ Chapter 1 Test
006 Lessons 2.1 - 2.2 Compare and Order Numbers	007 Lesson 2.3 Problem Solving Strategy: Make a Table	008 Lesson 2.4 Round Numbers	009 Review/ Chapter 2 Test	010 Lesson 3.1 Use Mental Math Strategies <u>and</u> Lesson 3.3 Add and Subtract to 4-Digit Numbers
011 Lesson 3.2 Estimate Sums and Differences	012 Lesson 3.4 Subtract Across Zeros	013 Lesson 3.5 Choose a Method	014 Lesson 3.6 Problem Solving Skill: Estimate or Find Exact Answers	015 Lessons 28.1 - 28.2 Explore, Estimate and Find Perimeter
016 Lesson 4.2 Addition Properties	017 Review/ Chapter 3 Test	018 Lesson 6.1 Collect and Organize Data	019 Lesson 6.2 Find Mean, Median, and Mode	020 Lesson 6.3 Read Line Plots
021 Lesson 6.4 Make Stem and Leaf Plots	022 Lesson 6.5 Compare Graphs	023 Lesson 6.6 Problem Solving Strategy: Make a Graph	024 Review/ Chapter 6 Test	025 Lesson 7.2 Read Line Graphs

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026 Lesson 7.5 Choose an Appropriate Graph	027 Lesson 7.6 Problem Solving Skill: Draw Conclusions	028 Lesson 20.6 Use a Coordinate Grid	029 Review/ Chapter 7 Test	030 Lesson 8.1 Relate Multiplication and Division
031 Lessons 8.2 – 8.3 Multiply and Divide Facts Through 10	032 Lesson 8.4 Multiplication Table Through 12	033 Lessons 8.5 – 8.6 Multiplication Properties; Choose the Operation	034 Review/ Chapter 8 Test	035 Lessons 4.1 <u>and</u> 9.1 Expressions
036 Lesson 9.2 Order of Operations	037 Lessons 4.3 <u>and</u> 9.3 Expressions and Equations with Variables	038 Lessons 4.4 <u>and</u> 9.6 Find a Rule	039 Lessons 4.5 <u>and</u> 9.5 Balance Equations	040 Lesson 4.6 Problem Solving Strategy:
041 Lesson 9.4 Problem Solving Strategy: Work Backward	042 Review/ Chapters 4/9 Test	043 Lessons 16.2 - 16.3 Factors and Multiples, Prime and Composite Numbers	044 Lesson 16.5 Square Numbers Review factors, prime and composite numbers	045 Lesson 16.4 Problem Solving Strategy: Find a Pattern <hr/> <hr/> Review/ Chapter 16 Test
046 Lessons 10.2 <u>and</u> 11.4 Estimate Products	047 Lessons 10.3 - 10.4 Multiply to 4-Digit Numbers	048 Lesson 10.5 Multiply with Zeros	049 Lesson 10.6 Problem Solving Strategy: Write an Equation	050 Lesson 11.2 The Distributive Property Review multiplication

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051 Lesson 11.5 Problem Solving Strategy: Solve a Simpler Problem	052 Review/ Chapters 10/11 Test	053 Lessons 29.1 – 29.2 Estimate and Find Area	054 Lessons 29.3 – 29.4 Relate Area and Perimeter; Problem Solving Strategy: Find a Pattern	055 Review/ Chapter 29 Test
056 Lesson 16.1 Divisibility Rules <u>and</u> Lesson 13.1 Divide with Remainders	057 Lesson 13.2 Hands on: Model Division	058 Lesson 13.3 Division Procedures, <u>and</u> Lesson 14.2 Place the First Digit	059 Lesson 13.4 Problem Solving Strategy: Predict and Test Review division	060 Lesson 13.5 Mental Math: Division Patterns
061 Lesson 14.1 Estimate Quotients	062 Lesson 14.3 Divide 3-Digit Numbers	063 Lesson 14.4 Zeros in Division Review division with 3 digit dividend	064 Lesson 14.6 Problem Solving Skill: Interpret the Remainder	065 Review/ Chapters 13/14 Test
066 Lessons 17.1 - 17.2 Lines, Rays, and Angles Focus on types of angles	067 Lesson 17.3 Line Relationships	068 Lesson 17.4 Problem Solving Strategy: Draw a Diagram	069 Lesson 18.1 Polygons	070 Lesson 18.2 Classify Triangles
071 Lesson 18.3 Classify Quadrilaterals	072 Lesson 18.4 Problem Solving Strategy: Draw a Diagram	073 Lesson 18.5 Circles	074 Review/ Chapters 17/18 Test	075 Lesson 30.1 Faces, Edges, Vertices

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076 Lesson 30.2 Patterns for Solid Figures	077 Lesson 30.4 Problem Solving Skill: Too Much/ Too Little Information	078 Lesson 19.1 Turns and Symmetry <u>and</u> Lesson 19.4 Transformations	079 Lesson 19.2 Congruent and Similar Figures	080 Lesson 19.3 Problem Solving Strategy: Make a Model
081 Lesson 19.6 Geometric Patterns	082 Review/ Chapters 19/30 Test	084 Lessons 21.1 - 21.2 Read and Write Fractions; Equivalent Fractions	084 Lesson 21.3 Compare and Order Fractions	085 Lesson 21.4 Problem Solving Strategy: Make a Model
086 Lesson 21.5 Mixed Numbers	087 Review/ Chapter 21 Test	088 Lesson 24.1 Length: Choose the Appropriate Unit	089 Lesson 24.2 Measure Fractional Parts	090 Lesson 24.3 Algebra: Change Linear Units
091 Lesson 24.4 Capacity	092 Lesson 24.5 Weight	093 Lesson 24.6 Problem Solving Strategy: Compare Strategies	094 Review/ Chapter 24 Test	095 Lessons 22.1 - 22.2 Add and Subtract Like Fractions
096 Lesson 22.3 Add and Subtract Mixed Numbers	097 Lesson 22.4 Problem Solving Skill: Choose the Operation	098 Lessons 22.5 - 22.6 Add and Subtract Unlike Fractions	099 Review/ Chapter 22 Test	100 Lessons 26.1 - 26.2 Relate Fractions and Decimals to Thousandths

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101 Lesson 26.3 Equivalent Decimals	102 Lesson 26.4 Relate Mixed Numbers and Decimals	103 Lessons 26.5 – 26.6 Compare and Order Decimals; Problem Solving Strategy: Use Logical Reasoning	104 Review/ Chapter 26 Test	105 Lessons 27.1 - 27.2 Round Decimals; Estimate Decimal Sums and Differences
106 Lessons 27.3 - 27.5 Add and Subtract Decimals and Money	107 Lesson 27.6 Problem Solving Skill: Evaluate Reasonableness Review +,- decimals	108 Review/ Chapter 27 Test	109 Lesson 25.1 Metric Length	110 Lesson 25.2 Algebra: Change Linear Units
111 Lessons 25.3 - 25.4 Capacity and Mass	112 Lesson 25.5 Problem Solving Strategy: Draw a Diagram	113 Lesson 25.6 Relate Benchmark Measurements	114 Review/ Chapter 25 Test	115 Lessons 23.1 - 23.2 Record and Predict Outcomes of Experiments
116 Lessons 23.3 - 23.4 Probability as a Fraction	117 Lesson 23.5 Combinations	118 Lesson 23.6 Problem Solving: Make an Organized List	119 Review/ Chapter 23 Test	120 Lesson 20.1 Temperature: Fahrenheit
121 Lesson 20.2 Temperature: Celsius	122 Lessons 5.1 - 5.2 Telling Time; Elapsed Time	123 Lesson 5.4 Elapsed Time on a Calendar	124 Lesson 5.3 Problem Solving Skill: Sequence Information	125 Review/ Chapters 5/20 Test

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<p>126</p> <p>AFTER FCAT</p> <p>Lesson 28.3 Circumference</p>	<p>127</p> <p>Lesson 28.4 Problem Solving Skill: Use a Formula</p> <hr style="border: 1px solid black;"/> <p>Review/ Chapter 28 Test</p>	<p>128</p> <p>Lesson 30.3 Estimate and Find Volume of Prisms</p>	<p>129</p> <p>Lesson 12.1 Multiply 2-Digit Numbers</p>	<p>130</p> <p>Lesson 12.2 Multiply 3-Digit Numbers</p>
<p>131</p> <p>Lesson 12.3 Choose a Method</p>	<p>132</p> <p>Lesson 12.4 Practice Multiplication Using Money</p>	<p>133</p> <p>Lesson 12.5 Problem Solving Skill: Multistep Problems</p>	<p>134</p> <p>Review/ Chapter 12 Test</p>	<p>135</p> <p>Lesson 15.1 Division Patterns to Estimate</p>
<p>136</p> <p>Lessons 15.2 - 15.3 Model Division and Division Procedures</p>	<p>137</p> <p>Lesson 15.4 Correcting Quotients</p>	<p>138</p> <p>Lesson 15.6 Find the Mean</p>	<p>139</p> <p>Lesson 15.5 Problem Solving Skill: Choose the Operation</p>	<p>140</p> <p>Review/ Chapter 15 Test</p>
<p>141</p> <p>Lesson 20.3 Explore Negative Numbers</p>	<p>142</p> <p>Lesson 20.5 Explore Inequalities</p>	<p>143</p> <p>Lesson 20.4 Problem Solving Skill: Make Generalizations</p>	<p>144</p> <p>Lesson 7.1 Make Bar and Double-bar Graphs</p>	<p>145</p> <p>Lessons 7.3 and 7.4 Make Line and Circle Graphs</p>
<p>146</p> <p>Lesson 19.5 Tessellations</p>	<p>147</p> <p>Lesson 10.1 Multiplication Patterns</p>	<p>148</p> <p>Lesson 11.1 Multiplication Patterns</p>	<p>149</p> <p>Lesson 11.3 Multiply by Tens</p>	<p>150</p> <p>Lesson 14.5 Choose a Method</p>

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Grade 4 General Content Limits

The content limits described below are applicable to all items developed for Grade 4. The content limits defined in the individual benchmark specifications, however, may be an expansion or further restriction of these limits.

Whole numbers

- Items should not exceed one operation.
- Place values should range from ones through millions.

Addition

- Items should not exceed 3 addends.
- Addends should not exceed 4 digits.

Subtraction

- Numbers should not exceed 4 digits.

Multiplication

- Products should not exceed 2 digits, unless one or both factors are a multiple of 10,

Division

- Divisors should not exceed 1 digit, and dividends should not exceed 3 digits.

Decimals

- Place values should range from tenths through hundredths.

Addition

- Items should not exceed 3 addends.
- Addends should not exceed 4 digits.

Subtraction

- Numbers should not exceed 4 digits.

Multiplication

- Items are limited to money (multiplied by a one-digit, whole number).

Division

- Items are limited to money (divided by a one-digit, whole number)

Fractions

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

Addition

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

Subtraction

- Unlike denominators must be common multiples.

Multiplication

- Not assessed at Grade 4

Division

- Not assessed at Grade 4

Percent

- Not assessed at Grade 4

Measurement

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