

**2011 Mathematics Test Standard and Performance Indicator Map
Grade 3**

Question	Type	Points	Strand	Content Performance Indicator
Book 1				
1	Multiple Choice	1	Number Sense and Operations	3.N02 Read and write whole numbers to 1,000
2	Multiple Choice	1	Measurement	3.M02 Use a ruler/yardstick to measure to the nearest standard unit (whole and 1/2 inches, whole feet, and whole yards)
3	Multiple Choice	1	Number Sense and Operations	3.N01 Skip count by 25's, 50's, and 100's to 1,000
4	Multiple Choice	1	Number Sense and Operations	3.N20 Use a variety of strategies to solve multiplication problems with factors up to 12×12
5	Multiple Choice	1	Number Sense and Operations	3.N08 Use the zero property of multiplication
6	Multiple Choice	1	Number Sense and Operations	3.N16 Identify odd and even numbers
7	Multiple Choice	1	Number Sense and Operations	3.N10 Develop an understanding of fractions as part of a whole unit and as parts of a collection
8	Multiple Choice	1	Algebra	3.A01 Use the symbols $<$, $>$, and $=$ (with and without the use of a number line) to compare whole numbers and unit fractions ($1/2$, $1/3$, $1/4$, $1/5$, $1/6$, and $1/10$)
9	Multiple Choice	1	Number Sense and Operations	3.N04 Understand the place value structure of the base ten number system: 10 ones = 1 ten 10 tens = 1 hundred 10 hundreds = 1 thousand
10	Multiple Choice	1	Number Sense and Operations	3.N21 Use the area model, tables, patterns, arrays, and doubling to provide meaning for multiplication
11	Multiple Choice	1	Number Sense and Operations	3.N03 Compare and order numbers to 1,000
12	Multiple Choice	1	Geometry	3.G01 Define and use correct terminology when referring to shapes (circle, triangle, square, rectangle, rhombus, trapezoid, and hexagon)
13	Multiple Choice	1	Number Sense and Operations	3.N05 Use a variety of strategies to compose and decompose three-digit numbers
14	Multiple Choice	1	Number Sense and Operations	3.N06 Use and explain the commutative property of addition and multiplication
15	Multiple Choice	1	Algebra	3.A02 Describe and extend numeric (+, -) and geometric patterns

**2011 Mathematics Test Standard and Performance Indicator Map
Grade 3 (continued)**

Question	Type	Points	Strand	Content Performance Indicator
Book 1 (continued)				
16	Multiple Choice	1	Number Sense and Operations	3.N23 Use tables, patterns, halving, and manipulatives to provide meaning for division
17	Multiple Choice	1	Statistics and Probability	3.S07 Read and interpret data in bar graphs and pictographs
18	Multiple Choice	1	Number Sense and Operations	3.N22 Demonstrate fluency and apply single-digit division facts
19	Multiple Choice	1	Geometry	3.G04 Identify the faces on a three-dimensional shape as two-dimensional shapes
20	Multiple Choice	1	Number Sense and Operations	3.N11 Use manipulatives, visual models, and illustrations to name and represent unit fractions ($\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{1}{6}$, and $\frac{1}{10}$) as part of a whole or a set of objects
21	Multiple Choice	1	Measurement	3.M09 Tell time to the minute, using digital and analog clocks
22	Multiple Choice	1	Statistics and Probability	3.S07 Read and interpret data in bar graphs and pictographs
23	Multiple Choice	1	Number Sense and Operations	3.N19 Develop fluency with single-digit multiplication facts
24	Multiple Choice	1	Measurement	3.M07 Count and represent combined coins and dollars, using currency symbols (\$0.00)
25	Multiple Choice	1	Algebra	3.A01 Use the symbols $<$, $>$, and $=$ (with and without the use of a number line) to compare whole numbers and unit fractions ($\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{1}{6}$, and $\frac{1}{10}$)
26	Multiple Choice	1	Measurement	3.M04 Recognize capacity as an attribute that can be measured
27	Multiple Choice	1	Geometry	3.G05 Identify and construct lines of symmetry
28	Multiple Choice	1	Number Sense and Operations	3.N24 Develop strategies for selecting the appropriate computational and operational method in problem solving situations
29	Multiple Choice	1	Number Sense and Operations	3.N17 Develop an understanding of the properties of odd/even numbers as a result of addition or subtraction
30	Multiple Choice	1	Algebra	3.A02 Describe and extend numeric (+, -) and geometric patterns
31	Multiple Choice	1	Measurement	3.M08 Relate unit fractions to the face of the clock: Whole = 60 minutes, $\frac{1}{2}$ = 30 minutes, $\frac{1}{4}$ = 15 minutes
32	Multiple Choice	1	Geometry	3.G02 Identify congruent and similar figures
33	Multiple Choice	1	Number Sense and Operations	3.N25 Estimate numbers up to 500
34	Multiple Choice	1	Geometry	3.G03 Name, describe, compare, and sort three-dimensional shapes: cube, cylinder, sphere, prism, and cone

**2011 Mathematics Test Standard and Performance Indicator Map
Grade 3 (continued)**

Question	Type	Points	Strand	Content Performance Indicator
Book 1 (continued)				
35	Multiple Choice	1	Statistics and Probability	3.S08 Formulate conclusions and make predictions from graphs
36	Multiple Choice	1	Number Sense and Operations	3.N26 Recognize real world situations in which an estimate (rounding) is more appropriate
37	Multiple Choice	1	Measurement	3.M01 Select tools and units (customary) appropriate for the length measured
38	Multiple Choice	1	Number Sense and Operations	3.N27 Check reasonableness of an answer by using estimation
39	Multiple Choice	1	Number Sense and Operations	3.N12 Understand and recognize the meaning of numerator and denominator in the symbolic form of a fraction
40	Multiple Choice	1	Measurement	3.M10 Select and use standard (customary) and non-standard units to estimate measurements
Book 2				
41	Short Response	2	Number Sense and Operations	3.N18 Use a variety of strategies to add and subtract 3-digit numbers (with and without regrouping)
42	Short Response	2	Statistics and Probability	3.S07 Read and interpret data in bar graphs and pictographs
43	Short Response	2	Geometry	3.G01 Define and use correct terminology when referring to shapes (circle, triangle, square, rectangle, rhombus, trapezoid, and hexagon)
44	Short Response	2	Number Sense and Operations	3.N20 Use a variety of strategies to solve multiplication problems with factors up to 12×12
45	Extended Response	3	Algebra	3.A02 Describe and extend numeric (+, -) and geometric patterns
46	Extended Response	3	Statistics and Probability	3.S05 Display data in pictographs and bar graphs