

Bridges Grade 3 Correlations to Virginia Mathematics Standards of Learning

NUMBER & NUMBER SENSE				
Focus: Place Value and Fractions				
Standards	Bridges	Number Corner	Bridges Supplement	Assessments
3.1a The student will read and write six-digit numerals and identify the place value and value of each digit.	Unit 2, Sessions 10, 13, 14, 17, 18, 22, 23, 26, 29 Unit 5, Sessions 3, 18	November Computational Fluency December Numbers Grid January Numbers Grid January Computational Fluency February Numbers Grid	Set A4 Number & Operations: Place Value, Activity 1 and Independent Worksheets 1–4 Bridges Practice Book, pp 3, 19, 21, 23, 85, 86, 88, 89	Informal Bridges Practice Book, pp 19, 21, 23, 88, 89
				Formal Number Corner, pp 266–268 (Checkup 3)
3.1b The student will round whole numbers, 9,999 or less, to the nearest ten, hundred, and thousand.	Unit 2, Session 16 Unit 5, Sessions 4, 5, 16, 18 Unit 5, p 628 (HC 19)	January Computational Fluency May Coins, Clocks & Bills	Set A3 Number & Operations: Multi-Digit Addition & Subtraction, Activity 5 and Independent Worksheet 4 Set A6 Number & Operations: Estimating to Add & Subtract, Independent Worksheets 1–3 Bridges Practice Book, pp 85, 86, 87, 89, 91, 93, 95, 99, 131	Informal Bridges Practice Book, pp 85, 86, 87, 89, 91, 93, 95, 99, 131
				Formal Unit 5, Sessions 1 & 20 (Unit Pre- and Post-Assessments) Number Corner Teacher's Guide, pp 200–202 and 266–268 (Checkups 2, & 3)
3.1c The student will compare two whole numbers between 0 and 9,999, using symbols (>, <, or =) and words (greater than, less than, or equal to).	Unit 2, Sessions 13, 14, 25 Unit 5, Session 6, 13–18 Unit 5, Session 16 Unit 5, pp 666–667 (WP 5G) Unit 6, p 737 (HC 23)	December Numbers Grid January Numbers Grid January Computational Fluency February Numbers Grid March Numbers Grid April Numbers Grid	Set A4 Number & Operations: Place Value, Activity 1 and Independent Worksheets 1–4 Bridges Practice Book, pp 3, 19, 23	Formal Number Corner Teacher's Guide, pp 322–323 (Checkup 4)
3.2 The student will recognize and use the inverse relationships between addition/subtraction and multiplication/division to complete basic fact sentences. The student will use these relationships to solve problems.	Unit 2, Sessions 25, 26 Unit 2, pp 310–311, 319–320 (WP's 2H, 2I) Unit 4, Sessions 4, 9, 13, 18, 19, 23, 24 Unit 5, Sessions 10, 13 Unit 5, pp 641–642 (WP 5E)	November Numbers Grid March Computational Fluency Number Corner Student Book, p 54	Set A1 Number & Operations: Equal Expressions, Independent Worksheets 1 & 2 Set A2 Number & Operations: Basic Multiplication & Division, Independent Worksheets 1, 3, 4, 5, 7 & 8 Bridges Practice Book, pp 1, 5, 7, 9, 27, 29, 36, 67, 69, 75, 77, 81, 83, 94	Formal Unit 4, Sessions 1 & 24 (Unit Pre- and Post-Assessments)
3.3a The student will name and write fractions (including mixed numbers) represented by a model	Unit 3, Sessions 11, 12 Unit 6, Sessions 6–9, 11–18	Dec–Feb Magnetic Board April Calendar Grid May Calendar Grid	Set A5 Number & Operations: Fractions, Activity 1 and Independent Worksheets 1 & 2 Bridges Practice Book, pp 10, 103, 105, 109	Formal Unit 6, Sessions 2 & 18 (Unit Pre- and Post-Assessments)

Bridges Grade 3 Correlations to Virginia Mathematics Standards of Learning (cont.)

NUMBER & NUMBER SENSE				
Focus: Place Value and Fractions				
Standards	Bridges	Number Corner	Bridges Supplement	Assessments
3.3b The student will model fractions (including mixed numbers) and write the fractions' names.	Unit 3, Sessions 11, 12 Unit 6, Sessions 6-9, 11-18 Unit 6, p 759 (Home Connection 24)	Dec-Feb Magnetic Board April Calendar Grid May Calendar Grid Number Corner Student Book, p 29	Set A5 Number & Operations: Fractions, Activity 1 and Independent Worksheets 1 & 2 Bridges Practice Workbook, pp 10, 103, 105, 109	Formal Unit 6, Sessions 2 & 18 (Unit Pre- and Post-Assessments)
3.3c The student will compare fractions having like and unlike denominators, using words and symbols (>, <, or =).	Unit 3, Sessions 11, 12 Unit 6, Session 5-9, 11-18	Dec-Feb Magnetic Board April Calendar Grid May Calendar Grid	Set A5 Number & Operations: Fractions, Activity 1 and Independent Worksheets 1 & 2 Bridges Practice Book, pp 30, 103, 108, 109, 110, 112, 114, 115, 116, 117, 125, 128, 133	Informal Bridges Practice Book, pp 30, 103, 109, 112, 114, 115, 116, 117, 125, 133, 128, 133
				Formal Unit 6, Sessions 2 & 18 (Unit Pre- and Post-Assessments) Number Corner Teacher's Guide, pp 322-324 (Checkup 4)

COMPUTATION & ESTIMATION				
Focus: Computation and Fraction Operations				
Standards	Bridges	Number Corner	Bridges Supplement	Assessments
3.4 The student will estimate solutions to and solve single-step and multistep problems involving the sum or difference of two whole numbers, each 9,999 or less, with or without regrouping.	Unit 2, Sessions 7, 8, 17-19, 22-27, 29 Unit 2, page 337 (HC 9) Unit 5, Sessions 2, 5, 6, 10, 12, 13, 17, 19 Unit 6, Session 1 Unit 7, Session 1	November Computational Fluency November Magnetic Board January Computational Fluency January Coins, Clocks & Bills March Magnetic Board May Coins, Clocks & Bills Number Corner Student Book, pages 35, 40, 62	Set A3 Number & Operations: Multi-Digit Addition & Subtraction, Activities 1-5 and Independent Worksheets 1-3 Set A6 Number & Operations: Estimating to Add & Subtract, Independent Worksheets 1-3 Bridges Practice Book, pp 9, 27, 29, 31, 33, 36, 39, 40, 51, 53, 81, 87, 89, 90, 92, 93, 94, 96, 99, 100, 101, 107, 118, 123, 126, 129, 137	Informal Bridges Practice Book, pages 39, 87, 89, 90, 92, 93, 96, 99, 100, 126
				Unit Pre- and Post-Assessments Unit 2, Sessions 12 & 30 Unit 5, Sessions 1 & 20 Number Corner Teacher's Guide, pp 200-202, 266-268 and 322-324 (Checkups 2, 3, & 4)

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COMPUTATION & ESTIMATION				
Focus: Computation and Fraction Operations				
Standards	Bridges	Number Corner	Bridges Supplement	Assessments
3.5 The student will recall multiplication facts through the twelves table, and the corresponding division facts.	Unit 4, Sessions 5–10, 17, 20, 22 Unit 4, pages 495, 548, 564 (Home Connections 14, 16 & 17) Unit 5, page 603 (HC 18) Unit 7, pages 833, 855–856 (Home Connections 27 & 28)	September Numbers Grid October Numbers Grid November Numbers Grid December Computational Fluency February–May Computational Fluency	Set A1 Number & Operations: Equal Expressions, Activity 1 and Independent Worksheets 1 & 2 Set A2 Number & Operations: Basic Multiplication & Division, Activities 1 & 2 and Independent Worksheets 1–8 Bridges Practice Book, pp 61, 63, 65, 67, 69, 70, 71, 73, 77, 79, 83, 119, 121, 123, 135	Informal Bridges Practice Book, pp 61, 63, 65, 67, 69, 77, 79, 83, 119, 121, 123, 135
				Unit 4, Sessions 11, 21 (Multiplication Fluency Checkups 1 & 2) Unit 5, Session 9 (Multiplication Fluency Checkup 3) Number Corner Teacher's Guide, pp 266–268, 322–324 (Checkups 3 & 4)
3.6 The student will represent multiplication and division, using area, set, and number line models, and create and solve problems that involve multiplication of two whole numbers, one factor 99 or less and the second factor 5 or less.	Unit 4, Sessions 2–9, 12, 14–16, 18–19, 22 Unit 4, p 465 (Home Connection 13) Unit 7, Sessions 12–17	October Calendar Grid October Magnetic Board December Computational Fluency February Computational Fluency May Magnetic Board Number Corner Student Book, pp 14, 58	Set A2 Number & Operations: Basic Multiplication & Division, Activities 1 & 2, and Independent Worksheets 1, 3, 5, 6 & 8 Set A7 Number & Operations: Multiplication Beyond the Basics, Activity 1 and Ind Worksheets 1, 2 & 3 Bridges Practice Book, pp 14, 16, 24, 25, 61, 63, 64, 67, 68, 69, 83, 91, 93, 121	Informal Unit 4, Session 9 (Work Sample) Bridges Practice Book, pp 64, 83, 121
				Formal Unit 4, Sessions 1 & 24 (Unit Pre- and Post-Assessments) Number Corner Teacher's Guide, pp 322–324 (Checkup 4)
3.7 The student will add and subtract proper fractions having like denominators of 12 or less.	Unit 6, Session 6–8, 11–13, 16	May Calendar Grid	Set A5 Number & Operations: Fractions, Activity 1 Bridges Practice Book, p 117	

MEASUREMENT				
Focus: U.S. Customary and Metric Units, Area and Perimeter, and Time				
Standards	Bridges	Number Corner	Bridges Supplement	Assessments
3.8 The student will determine, by counting, the value of a collection of bills and coins whose total value is \$5.00 or less, compare the value of the bills and coins, and make change.	Unit 2, Session 27 Unit 2, pp 325–326 (WP 2J) Unit 5, Session 5 Unit 6, Sessions 1, 3, 4 Unit 6, pp 706–707 (WP 6A) Unit 6, p 715 (HC 22)	September Clocks, Coins & Bills January Clocks, Coins & Bills February Clocks, Coins & Bills February Magnetic Board April Clocks, Coins & Bills April Magnetic Board May Clocks, Coins & Bills	Bridges Practice Book, pp 32, 118, 129	Formal Unit 6, Sessions 2 & 20 (Unit Pre- and Post-Assessments) Number Corner, pp 200–202, 322–324 (Checkups 2 & 4)

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MEASUREMENT				
Focus: U.S. Customary and Metric Units, Area and Perimeter, and Time				
Standards	Bridges	Number Corner	Bridges Supplement	Assessments
3.9a The student will estimate and use U.S. Customary and metric units to measure length to the nearest half inch, inch, foot, yard, centimeter, and meter	Unit 1, Session 15 Unit 1, pp 113–115 (WP 1E) Unit 2, Session 15 Unit 2, pp 248–250 (WP 2C)	March Data Collector		
3.9b The student will estimate and use U.S. Customary and metric units to measure liquid volume in cups, pints, quarts, gallons, and liters	Unit 6, Sessions 9, 10 Unit 7, Session 9		Set D4 Measurement: Capacity in U.S. Customary Units, Activities 1 & 2	
3.9c The student will estimate and use U.S. Customary and metric units to measure weight/mass in ounces, pounds, grams, and kilograms	Unit 4, 497–500 (Introduction to Weight Measurement) Unit 4, p 521 (HC 15)		Set D1 Measurement: Weight, Activities 1 & 2	
3.9d The student will estimate and use U.S. Customary and metric units to measure area and perimeter.	Unit 5, Sessions 7, 8 Unit 7, Session 8	October Calendar Grid October Magnetic Board March Data Collector Number Corner Student Book, p 53	Supplement Set D2 Measurement: Area, Activities 1 & 2 and Ind. Worksheet 1 Supplement Set D5 Measurement: Area in US Customary Units, Activities 1 & 2 and Independent Worksheet 1 Supplement Set D6 Measurement: Area in Metric Units, Activities 1 & 2 and Independent Worksheet 1 Bridges Practice Book, pp 44, 46, 48, 50, 54, 60, 106, 119, 130, 134	Informal Supplement Set D5 Measurement: Area in US Customary Units, Independent Worksheet 1 Supplement Set D6 Measurement: Area in Metric Units, Independent Worksheet 1 Bridges Practice Book, pp 44, 46, 48, 54, 119
				Formal Number Corner Teacher's Guide, pp 266–268 (Checkup 3)
3.10a The student will measure the distance around a polygon in order to determine perimeter.		March Data Collector Number Corner Student Book, p 53	Bridges Practice Book, pp 44, 46, 48	Informal Bridges Practice Book, pp 44, 46, 48

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MEASUREMENT				
Focus: U.S. Customary and Metric Units, Area and Perimeter, and Time				
Standards	Bridges	Number Corner	Bridges Supplement	Assessments
3.10b The student will count the number of square units needed to cover a given surface in order to determine area.	Unit 7, Session 8	October Calendar Grid October Magnetic Board	Supplement Set D2 Measurement: Area, Activities 1 & 2 and Ind. Worksheet 1 Supplement Set D5 Measurement: Area in US Customary Units, Act. 1 Supplement Set D6 Measurement: Area in Metric Units, Activity 1	Informal Supplement Set D2 Measurement: Area, Independent Worksheet 1
3.11a The student will tell time to the nearest minute, using analog and digital clocks.	Unit 2, page 312 (HC 8)	October Coins, Clocks & Bills November Coins, Clocks & Bills December Coins, Clocks & Bills January Calendar Grid March Coins, Clocks & Bills	Supplement Set D3 Measurement: Telling Time, Activity 1 and Independent Worksheets 1 & 2 Bridges Practice Book, pp 12, 17, 34	Informal Bridges Practice Book, pp 17, 34
				Formal Number Corner, pp 92–94, 266–267 (Checkups 1, 3)
3.11b The student will determine elapsed time in one-hour increments over a 12-hour period.		October Clocks, Coins & Bills November Clocks, Coins & Bills December Clocks, Coins & Bills January Calendar Grid March Clocks, Coins & Bills	Bridges Practice Book, pp 20, 70, 120	Formal Number Corner Teacher's Guide, pp 92–94, 266–268 (Checkups 1 & 3)
3.12 The student will identify equivalent periods of time, including relationships among days, months, and years, as well as minutes and hours.		March Clocks, Coins & Bills	Set A7 Number & Operations: Multiplication Beyond the Basics, Independent Worksheets 2 & 3 Bridges Practice Book, p 68	
3.13 The student will read temperature to the nearest degree from a Celsius thermometer and a Fahrenheit thermometer. Real thermometers and physical models of thermometers will be used.		November Magnetic Board November Data Collector December Calendar Grid January Data Collector Number Corner Student Book, pp 18–20, 24, 26, 31–33, 38		

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GEOMETRY				
Focus: Properties and Congruence, Characteristics of Plane and Solid Figures				
Standards	Bridges	Number Corner	Bridges Supplement	Assessments
3.14 The student will identify, describe, compare, and contrast characteristics of plane and solid geometric figures (circle, square, rectangle, triangle, cube, rectangular prism, square pyramid, sphere, cone, and cylinder) by identifying relevant characteristics, including the number of angles, vertices, and edges, and the number and shape of faces, using concrete models.	Unit 3, Sessions 2–4, 8, 9, 12–14 Unit 3 pp 360-362, 401–402, 416–417 (WP’s 3A, 3C, 3D) Unit 7, Sessions 3–8, 10, 11	November Calendar Grid March Calendar Grid April Calendar Grid	Set C2 Geometry: Triangles and More, Activity 2 and Independent Worksheets 3 & 4 Bridges Practice Book, pp 43, 45, 46, 47, 55, 56, 139, 140	Informal Set C2 Geometry: Triangles and More, Independent Worksheets 3 & 4
				Formal Unit 3, pp 421-426 (Constructed Response Assessment) Unit 7, Sessions 2 & 20 (Unit Pre- and Post-Assessments) Number Corner Teacher’s Guide, pp 266–268 (Checkup 3)
3.15 The student will identify and draw representations of points, line segments, rays, angles, and lines.	Unit 3, Session 11 Unit 5, Sessions 16, 17 Unit 5, p 675 (HC 21)		Set C2 Geometry: Triangles & More, Activities 1 & 3 and Independent Worksheets 1 & 2 Bridges Practice Book, pp 41, 42, 52, 57	Informal Set C2 Geometry: Triangles & More, Independent Worksheet 1 and/or 2
3.16 The student will identify and describe congruent and noncongruent plane figures.	Unit 3, Sessions 3–7, 11, 12 Unit 3, pp 376-378, 401–402 (WP’s 3B, 3C) Unit 6, Sessions 6, 11, 12 Unit 7, Sessions 6–8, 10, 11	November Calendar Grid	Bridges Practice Book, p 49	

PROBABILITY & STATISTICS				
Focus: Applications of Data and Chance				
Standards	Bridges	Number Corner	Bridges Supplement	Assessments
3.17a The student will collect and organize data, using observations, measurements, surveys, or experiments.	Unit 1, Sessions 2–4, 7, 12, 20 Unit 3, Sessions 6, 12 Unit 4, Session 2, 3, 17–19 Unit 5, Sessions 7, 8 Unit 6, Sessions 6, 9, 16, 17 Unit 7, Sessions 18, 19 Unit 8, Sessions 4, 5, 11, 13, 15	September–May Calendar Grid October Data Collector November Data Collector December Magnetic Board January Data Collector April Data Collector May Data Collector	Set E1 Data Analysis: Graphs, Activities 1, 2 & 3 and Independent Worksheets 1 & 2 Bridges Practice Book, pp 102, 132	Formal Unit 6, Sessions 2 & 18 (Pre- and Post-Assessments)

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PROBABILITY & STATISTICS				
Focus: Applications of Data and Chance				
Standards	Bridges	Number Corner	Bridges Supplement	Assessments
3.17b The student will construct a line plot, a picture graph, or a bar graph to represent the data.	Unit 6, Session 6, 16, 17 Unit 6, page 775 (HC 25) Unit 8, Sessions 11, 13, 14	April Data Collector May Data Collector	Supplement Set E1 Data Analysis: Graphing, Activities 1–3 and Independent Worksheets 1 & 2 Bridges Practice Book, pp 4, 102, 132	Informal Supplement Set E1 Data Analysis: Graphing, Independent Worksheets 1 and/or 2
				Formal Unit 6, Sessions 2 & 20 (Unit Pre- and Post-Assessments)
3.17c The student will read and interpret the data represented in line plots, bar graphs, and picture graphs and write a sentence analyzing the data.	Unit 1, Sessions 2, 3, 12, 20 Unit 2, Session 11 Unit 2, pp 227–229 (Analyzing Outcomes for Blast Off to Space) Unit 3, Session 6 Unit 4, Sessions 3, 17 Unit 6, Sessions 6, 9, 16, 17 Unit 6, p 775 (HC 25) Unit 8, Sessions 11–15	October Data Collector December Data Collector December Magnetic Board February Data Collector April Data Collector May Data Collector Number Corner Student Book, pp 15–16, 28, 49	Supplement Set E1 Data Analysis: Graphing, Activities 1–3 and Independent Worksheets 1 & 2 Bridges Practice Book, pp 2, 4, 6, 15, 102, 132	Informal Supplement Set E1 Data Analysis: Graphing, Independent Worksheets 1 and/or 2 Bridges Practice Book, pp 2, 4, 6, 15, 102, 132
				Formal Unit 6, Sessions 2 & 18 (Unit Pre- and Post-Assessment) Number Corner Teacher’s Guide, pp 200–202 (Checkup 2)
3.18 The student will investigate and describe the concept of probability as chance and list possible results of a given situation.	Unit 1, Sessions 12, 20 Unit 2, pp 227–229 (Analyzing Outcomes for Blast Off to Outer Space) Unit 4, Sessions 3, 17 Unit 6, Session 16, 17 Unit 6, p 775 (HC 25)	October Data Collector December Magnetic Board April Data Collector May Data Collector		Formal Unit 6, Sessions 2 & 18 (Unit Pre- and Post-Assessments) Number Corner, pages 322–324 (Checkup 4)

Bridges Grade 3 Correlations to Virginia Mathematics Standards of Learning (cont.)

PATTERNS, FUNCTIONS & ALGEBRA				
Focus: Patterns and Property Concepts				
Standards	Bridges	Number Corner	Bridges Supplement	Assessments
3.19 The student will recognize and describe a variety of patterns formed using numbers, tables, and pictures, and extend the patterns, using the same or different forms.	Unit 1, Sessions 4, 7, 9 Unit 1, pp 86–87, 90–91 (Work Places 1B, 1D) Unit 2, Sessions 1–3, 5, 6, 8–10 Unit 2, p 284 (HC 7) Unit 4, Sessions 2, 6, 10, 15, 18–20 Unit 5, Sessions 7, 8, 15 Unit 7, Session 8	September–May Calendar Grid September Numbers Grid September Magnetic Board December Numbers Grid February Numbers Grid Number Corner Student Book pp 6, 14, 27, 42	Bridges Practice Book, pp 6, 24, 31, 35	Informal Number Corner Student Book, pp 6, 14, 27, 42 Bridges Practice Book, pp 31, 35
				Formal Unit 4, pp 441-444, 562-569 (Pre- and Post Assessment) Number Corner Teacher's Guide, p 6 (Baseline Assessment)
3.20a The student will investigate the identity and the commutative properties for addition and multiplication	Unit 4, Sessions 5, 6, 8, 18, 19, 21 Unit 4, pages 476–478 (WP 4B)	October Magnetic Board May Computational Fluency	Set A1 Number & Operations: Equal Expressions, Activity 1 and Independent Worksheets 1 & 2 Set A2 Number & Operations: Basic Multiplication and Division, Activities 1 & 2	
3.20b The student will identify examples of the identity and commutative properties for addition and multiplication.	Unit 4, Sessions 5, 6, 8, 18, 19, 21	October Magnetic Board May Computational Fluency	Set A1 Number & Operations: Equal Expressions, Activity 1 and Independent Worksheets 1 & 2 Set A2 Number & Operations: Basic Multiplication and Division, Activities 1 & 2	