



BRIDGES GRADE 5

PUBLISHER'S CORRELATIONS TO
TENNESSEE MATHEMATICS
GRADE LEVEL EXPECTATIONS

Bridges Grade 5 Correlations to Tennessee Mathematics Standards

Key All of the references in these correlations are to essential components of the Bridges in Mathematics curriculum that are necessary to make the program fully functional in the classroom.

STANDARD 1—MATHEMATICAL PROCESSES					
GRADE LEVEL EXPECTATIONS					
Grade Level Expectation	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
GLE 0506.1.1 Use mathematical language, symbols, and definitions while developing mathematical reasoning.	Unit 1, Sessions 5–9, 11–13, 16–20 Unit 2, Sessions 1, 5–18 Unit 3, Sessions 3, 4, 6, 8–14, 17, 20, 21 Unit 4, Sessions 6, 10, 13, 20 Unit 5, Sessions 12, 13 Unit 6, Sessions 2, 5, 6, 14 Unit 7, Sessions 7, 8, 10–13	Home Connections, Vol. 1 HC's 5, 9, 10	Sept–May Problem Solving Sept–May Calendar Grid Sept–May Calendar Collector	Set A6 Number & Operations: Fraction Concepts, Activities 1, 2 and Ind. Worksheets 1–3 Set A10 Number & Operations: Integers, Activities 1–3 and Ind. Worksheets 1–3 Set C1 Geometry: Triangles & Quadrilaterals, Activities 1–4 and Ind. Worksheets 1–6	Formal Bridges, Units 1–8 Pre- and Post-Assessments
GLE 0506.1.2 Apply and adapt a variety of appropriate strategies to problem solving, including estimation, and reasonableness of the solution.	Unit 2, Sessions 6–17 Unit 2, pp 290–292 (WP 1A) Unit 4, Sessions 2, 4–10, 12, 20 Unit 4, pp 554–555, 623–624 (WP's 4D, 4G) Unit 5, Sessions 9, 10, 12, 13 Unit 6, Sessions 5, 6, 14, 19 Unit 7, Sessions 7, 10–14 Unit 8, Sessions 5, 7, 9	Home Connections, Vol. 1 HC's 6, 7, 13, 14, 17, 32, 34, 35, 39, 40 Home Connections, Vol. 2 HC's 43, 47, 52, 53, 54, 62, 63, 64, 65, 69	Sept–May Calendar Grid Sept–May Problem Solving Dec. Computational Fluency Feb. Computational Fluency April Computational Fluency May Computational Fluency	Set A4 Number & Operations: Long Division, Activities 1, 2 Set A6 Number & Operations: Fraction Concepts, Activities 1, 2 and Ind. Worksheets 1–3 Set C1 Geometry: Triangles & Quadrilaterals, Activities 1–4 and Ind. Worksheets 1–6 Bridges Practice Book, pp 1, 10, 14, 16–18, 20, 24, 26, 28–30, 32, 34, 36, 37–40, 52, 55, 62–65, 70, 72, 78, 80, 83, 85, 86, 90–92, 98–100, 113, 114, 116, 118–120, 123, 124, 126, 128, 131, 132, 138	Informal Bridges Work Samples: Unit 2, Session 8 Unit 4, Session 20 Unit 5, Session 13 Unit 6, Session 14 Unit 7, Sessions 12, 14 Number Corner, Vol. 2, pp 207–212, 337–342 (Reviewing Strategies & Scoring Each Other's Work)

Bridges Grade 5 Correlations to Tennessee Mathematics Standards (Cont.)

STANDARD 1—MATHEMATICAL PROCESSES

GRADE LEVEL EXPECTATIONS

Grade Level Expectation	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
GLE 0506.1.3 Develop independent reasoning to communicate mathematical ideas and derive algorithms and/or formulas.	Unit 1, Session 13 Unit 3, Sessions 1, 4, 7, 10, 13, 14, 17–21 Unit 4, Sessions 7, 10 Unit 5, Sessions 8, 10–11 Unit 6, Sessions 8, 10–13 Unit 7, Sessions 1, 2, 4–6	Home Connections, Vol. 1 HC's 24, 25, 27 Home Connections, Vol. 2 HC's 45, 60, 61, 63, 69	October Calendar Grid December Calendar Grid February Calendar Collector March Problem Solving May Calendar Grid	Set A4 Number & Operations: Long Division, Activities 1, 2 Set C1 Geometry: Triangles & Quadrilaterals, Activities 3, 4 and Ind. Worksheets 5, 6 Set D2 Measurement: Volume, Activities 1, 2 and Ind. Worksheets 1, 2 Bridges Practice Book, pp 3, 6, 7, 8, 15, 19, 33, 44, 48, 50, 60, 71, 76, 82, 87, 97, 123, 124, 140	Formal Bridges, Vol 3, pp 779–783, 902–907 (Unit 6 Pre- and Post-Assessments) Number Corner Vol. 1, pp 57–68, (Baseline) Number Corner, Vol. 2, pp 232–236, 320–324, 400–404 (Checkups 2–4)
GLE 0506.1.4 Move flexibly between concrete and abstract representations of mathematical ideas in order to solve problems, model mathematical ideas, and communicate solution strategies.	Unit 2, Sessions 1, 3, 8, 11, 12 Unit 4, Sessions 3–5, 11–18 Unit 6, Sessions 3–6, 8–13, 15, 16 Unit 6, pp 892–898 (Work Places 6B, 6C)	Home Connections, Vol. 1 HC's 36, 39, 41 Home Connections, Vol. 2 HC's 56, 57	November Calendar Grid Jan. Computational Fluency February Calendar Grid Mar. Computational Fluency	Set A4 Number & Operations: Long Division, Activities 1, 2 Set A10 Number & Operations: Integers, Activities 1–3 and Ind. Worksheets 1–3 Bridges Practice Book, pp 71, 73, 75, 84, 101, 107, 111, 112, 113, 130	Formal Bridges, Vol. 1, pp 32–39, 138–144, 195–203, 298–306 (Units 1 & 2 Pre & Post Assessments) Bridges, Vol. 4, pp 942–948, 1020–1024 (Unit 7 Pre- and Post-Assessments)
GLE 0506.1.5 Use mathematical ideas and processes in different settings to formulate patterns, analyze graphs, set up and solve problems and interpret solutions.	Unit 1, Sessions 5, 6, 16–18 Unit 2, Sessions 14, 18 Unit 5, Session 10 Unit 4, Session 4 Unit 6, Session 2 Unit 7, Sessions 4–7, 9	Home Connections, Vol. 1 HC's 2, 8, 18, 37 Home Connections, Vol. 2 HC's 49, 61–63	Sept–May Calendar Grid	Set A4 Number & Operations: Long Division, Activities 1, 2 Set A10 Number & Operations: Integers, Activities 1–3 and Ind. Worksheets 1–3	Formal Bridges, Vol. 1, pp 32–39, 138–144, 195–203, 298–306 (Units 1 & 2 Pre & Post Assessments) Bridges, Vol. 4, pp 942–948, 1020–1024 (Unit 7 Pre- and Post-Assessments)
GLE 0506.1.6 Read and interpret the language of mathematics and use written/oral communication to express mathematical ideas precisely.	Unit 1, Sessions 5–7, 9, 11–13, 16–18 Unit 2, Sessions 1, 2, 15, 18 Unit 3, Sessions 4, 6–8, 10, 11, 17, 19, 20 Unit 4, Sessions 10, 11, 14, 15 Unit 5, Sessions 1, 6, 8, 10, 13–15 Unit 6, Sessions 5–8, 12, 13 Unit 7, Sessions 4, 5, 7–14 Unit 8, Sessions 1, 6, 8	Home Connections, Vol. 1 HC's 11, 15, 34, 35, 39, 40 Home Connections, Vol. 2 HC's 42, 45, 46, 48, 57, 58, 62, 63, 64, 65, 69	September Calendar Grid December Calendar Grid January Calendar Grid February Calendar Grid February Problem Solving March Calendar Grid May Calendar Grid	Set C1 Geometry: Triangles & Quadrilaterals, Activities 1–4 and Ind. Worksheets 1–6 Bridges Practice Book, pp 10, 15, 18, 20, 26, 28, 30, 32, 34, 36, 40, 52, 60, 61, 65, 70, 76, 78, 80, 82, 86, 87, 88, 90, 92, 93, 94, 95, 96, 100, 105, 116, 119, 120, 126, 128, 132, 136, 138	Informal Number Corner, Vol. 2, pp 207–212, 337–342 (Reviewing Strategies & Scoring Each Other's Work) Bridges Practice Book, pp 10, 18, 92, 132, 138

Bridges Grade 5 Correlations to Tennessee Mathematics Standards (cont.)

STANDARD 1—MATHEMATICAL PROCESSES

GRADE LEVEL EXPECTATIONS

Grade Level Expectation	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
GLE 0506.1.7 Recognize the historical development of mathematics, mathematics in context, and the connections between mathematics and the real world.	Unit 1, Sessions 8, 9, 11 Unit 3, Sessions 9, 10, 19, 20 Unit 4, Session 10 Unit 6, Sessions 8, 10–13 Unit 8, Session 2–11	Home Connections, Vol. 1 HC's 1, 6, 10, 11, 15, 16, 18, 20, 21, 30, 32, 36, 37, 38 Home Connections, Vol. 2 HC's 42, 43, 47, 48, 49, 52, 54, 55, 56, 57, 58, 62, 64, 65, 66, 68, 69	November Calendar Grid December Calendar Collector January Calendar Collector February Calendar Grid March Calendar Collector March Problem Solving April Calendar Collector	Set A10 Number & Operations: Integers, Activities 1–3 and Ind. Worksheets 1–3 Bridges Practice Book, pp 10, 16, 17, 18, 20, 26, 28, 30, 32, 34, 36, 38, 39, 40, 52, 60, 64, 65, 70, 72, 78, 80, 86, 87, 88, 90, 92, 93, 94, 95, 96, 100, 116, 119, 120, 126, 128, 132, 138	Formal Unit 8, Session 12 (Unit Post-Assessment)
GLE 0506.1.8 Use technologies/manipulatives appropriately to develop understanding of mathematical algorithms, to facilitate problem solving, and to create accurate and reliable models of mathematical concepts.	Unit 1, Sessions 5–9, 16–18 Unit 2, Sessions 1–3, 13–20 Unit 3, Sessions 1–4, 6, 7, 9–12, 17–21 Unit 4, Sessions 11–13, 15, 17–19 Unit 5, Sessions 7, 8, 14, 15 Unit 6, Sessions 2, 3, 5, 6, 9, 10, 13 Unit 7, Sessions 4, 10–13 Unit 8, Sessions 2–5, 7, 9–11		Oct. Calendar Collector Oct. Calendar Grid Nov. Calendar Collector Dec. Calendar Collector Jan. Calendar Collector Feb. Calendar Collector March Calendar Collector	Set A10 Number & Operations: Integers, Activities 1–3 and Ind. Worksheets 1–3 Set A11 Number & Operations: Multiplying Decimals, Activities 1–4 and Ind. Worksheets 1–5	

CHECKS FOR UNDERSTANDING

Check for Understanding	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
✓ 0506.1.1 Make and test conjectures about geometric properties and develop logical arguments to justify conclusions.	Unit 3, Sessions 1, 7, 10, 13, 14, 18–21	Home Connections, Vol. 1 HC's 24, 25, 27	September Calendar Grid October Calendar Grid	Set C1 Geometry: Triangles & Quadrilaterals, Activities 1, 2, 3 Set D3 Measurement: Area of Polygons, Activities 3, 4 Bridges Practice Book, pp 44, 50, 140	Informal Bridges Practice Book, pp 44, 50, 140
✓ 0506.1.2 Make reasonable estimates of fraction and decimal sums or differences using models.	Unit 4, Session 12 Unit 6, Session 14		April Computational Fluency Support Activity 35 (See Grade 5 Number Corner Blacklines)	Set A6 Number & Operations: Fraction Concepts, Activity 2 and Ind. Worksheets 2 & 3 Bridges Practice Book, pp 113, 114, 118	Informal Bridges Practice Book, pp 113, 114, 118

Bridges Grade 5 Correlations to Tennessee Mathematics Standards (cont.)

STANDARD 1—MATHEMATICAL PROCESSES

CHECKS FOR UNDERSTANDING

Check for Understanding	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
<p>✓ 0506.1.3 Explore different methods of estimation including rounding and truncating.</p>	<p>Unit 2, Sessions 14–17 Unit 4, Sessions 2, 4–10</p>	<p>Home Connections, Vol. 1: HC's 19, 32, 35, 36, 41</p>	<p>May Computational Fluency</p>	<p>Set A4 Number & Operations: Long Division, Activities 1 & 2</p>	<p>Formal Unit 4, Sessions 1 & 21 (Unit Post-Assessment, and Student Reflection Sheet)</p>
<p>✓ 0506.1.4 Explore problems in different contexts to interpret the meaning of remainders as discrete values or not.</p>	<p>Unit 1, Session 8 Unit 2, Session 14 Unit 4, Sessions 5, 7 Unit 4, pp 548–550 (WP 4B) Unit 6, Session 2</p>	<p>Home Connections, Vol. 1: HC's 21, 37 Home Connections, Vol. 2: HC 49</p>		<p>Set A4 Number & Operations: Long Division, Activities 1 & 2 Bridges Practice Book, pp 32, 36, 64, 90</p>	<p>Formal Unit 1, pp 39–43 (Ind. Int.) Unit 2, Sessions 4 & 21 (Unit Pre- and Post-Assessments)</p>
<p>✓ 0506.1.5 Solve problems in more than one way and explain why one process may be more effective than another.</p>	<p>Unit 1, Sessions 5, 6, 10, 16, 17 Unit 3, Session 1, 6–7, 9–11 Unit 4, Sessions 6, 10, 13, 20 Unit 5, Sessions 4–5, 12–13 Unit 7, Sessions 7, 10–13</p>	<p>Home Connections, Vol. 2: HC 65</p>	<p>September–May Problem Solving</p>		<p>Informal Unit 7, Session 14 (Poster Response Form) Number Corner Teacher's Guide, Vol. 2, pp 210–212, 258, 341–342, 377–378 (Scoring Each Other's Work)</p>
<p>✓ 0506.1.6 Communicate answers in correct verbal and numerical form, including use of mixed numbers or fractions and use of units.</p>	<p>This is expected of students throughout the Bridges sessions, Number Corner workouts, Supplement activities and worksheets, Practice Book pages, Home Connections, and assessments. Students are frequently asked to use numbers, words, and/or sketches to express their strategies and solutions, and are routinely expected to include the proper units in their answers when appropriate.</p>				
<p>✓ 0506.1.7 Organize and consolidate verbal statements involving fractions and mixed numbers into diagrams, symbols, and numerical expressions.</p>	<p>Unit 4, Sessions 11–16, 19, 20–22 Unit 6, Sessions 5–7, 14 Unit 6, page 890 (Challenge) Unit 6, page 895 (Challenge)</p>	<p>Home Connections, Vol. 1: HC's 23, 40, 41 Home Connections, Vol. 2: HC 51, 52, 56, 58</p>	<p>November Calendar Grid Nov. Calendar Collector February Calendar Grid March & April Computational Fluency</p>	<p>Bridges Practice Book, pp 78, 80, 93, 94, 119, 133, 134, 135, 136</p>	<p>Informal Work Samples: Unit 4, Sessions 15, 16 Unit 6, Sessions 6, 14 Bridges Practice Book, pp 76, 77, 107, 108, 109, 110, 127, 129, 133, 135</p>
					<p>Formal Unit Pre/Post Assessments Unit 4, Sessions 1 & 23 Unit 6, Sessions 1 & 19 Number Corner Teacher's Guide, pp 57–60, 320–324, 400–404 (Baseline Assessment, Checkups 3 & 4)</p>

Bridges Grade 5 Correlations to Tennessee Mathematics Standards (cont.)

STANDARD 1—MATHEMATICAL PROCESSES

CHECKS FOR UNDERSTANDING

Check for Understanding	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
✓ 0506.1.8 Use patterns, models, and relationships as contexts for writing inequalities and simple equations.	Unit 1, Sessions 5, 6, 16–18 Unit 7, Sessions 4–7, 9–14			Set B1 Algebra: Diagrams & Equations, Activity 1 and Ind. Worksheets 1 & 2	
✓ 0506.1.9 Use age-appropriate books, stories, and videos to convey ideas of mathematics.	Unit 1, Sessions 2, 8 Unit 2, Sessions 8, 11, 12, 16, 17 Unit 3, Sessions 8, 13, 14 Unit 4, Sessions 6, 13, 14, 16, 20 Unit 5, Sessions 9, 10, 12, 13 Unit 6, Sessions 5, 6, 14 Unit 7, Sessions 7, 8, 10–14 Unit 8, Session 1		Sept–May Problem Solving		

STATE PERFORMANCE INDICATORS

State Performance Indicator	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
SPI 0506.1.1 Given a series of geometric statements, draw a conclusion about the figure described.	Unit 3, Sessions 13, 14, 16		March Problem Solving	Set C1 Geometry: Triangles & Quadrilaterals, Activities 1, 2, 4 and Ind. Worksheets 1–4	
SPI 0506.1.2 Estimate fraction and decimal sums or differences.	Unit 4, Session 12 Unit 6, Session 14		April Computational Fluency Support Activity 35 (See Grade 5 Number Corner Blacklines)	Set A6 Number & Operations: Fraction Concepts, Activity 2 and Ind. Worksheets 2 & 3 Bridges Practice Book, pp 113, 114, 118	Informal Bridges Practice Book, pp 113, 114, 118
SPI 0506.1.3 Recognize the unit associated with the remainder in a division problem or the meaning of the fractional part of a whole given in either decimal or fraction form.	Unit 1, Session 8 Unit 2, Session 14 Unit 4, Sessions 5, 7 Unit 4, pp 548–550 (WP 4B) Unit 6, Session 2	Home Connections, Vol. 1: HC's 21, 37 Home Connections, Vol 2: HC 49		Set A4 Number & Operations: Long Division, Activities 1 & 2 Bridges Practice Book, pp 32, 36, 64, 90	Formal Unit 1, pp 39–43 (Ind. Int.) Unit 2, Sessions 4 & 21 (Unit Pre- and Post-Assessments)
SPI 0506.1.4 Identify missing information and/or too much information in contextual problems.				Bridges Practice Book, pp 10, 18, 92, 132, 138	Informal Bridges Practice Book, pp 10, 18, 92, 132, 138

Bridges Grade 5 Correlations to Tennessee Mathematics Standards (cont.)

STANDARD 2—NUMBER & OPERATIONS GRADE LEVEL EXPECTATIONS

Grade Level Expectation	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
GLE 0506.2.1 Extend the understanding of place value through millions and millions in various contexts and representations.	Unit 2, Session 1 Unit 6, Sessions 8, 9, 11–13 Unit 6, pp 894–895 (WP 6C) Unit 7, Session 8	Home Connections, Vol. 2 HC's 53–58	Dec. Computational Fluency Mar. Computational Fluency April Calendar Collector	Set A11 Number & Operations: Multiplying Decimals, Activities 1–4 and Ind. Worksheets 1–5 Bridges Practice Book, pp 111–113, 130	Formal Bridges, Vol. 1, pp 39–43 (Individual Interview) Bridges, Vol 3, pp 779–783, 902–907 (Unit 6 Pre- and Post-Assessments) Number Corner Teacher's Number Corner Teacher's Guide, Vol. 1, pp 57–60, 110–114 (Baseline Assessment, Checkup 1) Number Corner Teacher's Guide, Vol. 2, pp 232–236, 320–324, 400–404 (Checkups 2–4)
GLE 0506.2.2 Write natural numbers (to 50) as a product of prime factors and understand that this is unique (apart from order).	Unit 1, Sessions 9, 11, 12	Home Connections, Vol. 1HC5	March Problem Solving	Bridges Practice Book, pp 3, 13, 15, 19, 89	Informal Bridges Practice Book, pp 3, 13, 15, 19, 89 Formal Bridges, Vol. 1, pp 32–39, 138–144 (Unit 1 Pre- & Post-Assessments) Number Corner, Vol. 2, pp 400–404 (Checkup 4)
GLE 0506.2.3 Develop fluency with division of whole numbers. Understand the relationship of divisor, dividend, and quotient in terms of multiplication and division.	Unit 1, Sessions 7, 8 Unit 2, Sessions 13–20 Unit 2, p 289 (Division Challenge Problems) Unit 4, Sessions 2, 4–10 Unit 4, pp 548–550 (WP 4B) Unit 6, Sessions 2, 10	Home Connections, Vol. 1: HC 2–4, 19, 21, 23, 32, 34–37, 41 Home Connections, Vol. 2: HC's 42, 47–49, 52, 57, 58, 60, 61, 64	Dec. Computational Fluency Feb. Computational Fluency May Computational Fluency	Set A4 Number & Operations: Long Division, Activities 1 & 2 Bridges Practice Book, pp 1, 5, 9, 21, 22, 32, 35–39, 61, 63, 64, 66–68, 70, 79, 81–83, 85, 90–92, 99, 100, 131	Informal Unit 2, Sessions 17 & 20 (Work Samples) Unit 5, Session 13 (Work Sample) Bridges Practice Book, pp 37–39, 64, 85, 91, 99, 131 Formal Bridges, Vol. 1, pp 195–203, 298–306 (Unit 2 Pre & Post Assessments) Unit 4, Session 21 (Unit Post-Assessment)

Bridges Grade 5 Correlations to Tennessee Mathematics Standards (cont.)

STANDARD 2—NUMBER & OPERATIONS					
GRADE LEVEL EXPECTATIONS					
Grade Level Expectation	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
GLE 0506.2.4 Develop fluency with addition and subtraction of proper and improper fractions and mixed numbers; explain and model the algorithm.	Unit 4, Sessions 11–16, 19, 20 Unit 4, pp 617–619 (Dozens of Eggs) Unit 6, Sessions 5–7, 14	Home Connections, Vol. 1 HC's 23, 40, 41 Home Connections, Vol. 2 HC's 51, 52, 58	November Calendar Grid Nov. Calendar Collector April Computational Fluency	Set A6 Number & Operations: Fraction Concepts, Activities 1, 2 and Ind. Worksheets 1–3 Bridges Practice Book, pp 71, 73, 75–78, 80, 84, 101–110, 114, 115, 117–119, 127, 129, 130, 133–135, 137	Formal Bridges, Vol. 2, pp 498–504, 626–632 (Unit 4 Pre- and Post-Assessments) Bridges, Vol 3, pp 779–783, 902–907 (Unit 6 Pre- and Post-Assessments) Number Corner Vol. 1, pp 57–68 (Baseline) Number Corner, Vol. 2, pp 320–324, 400–404 (Checkups 3, 4)
GLE 0506.2.5 Develop fluency in solving multi-step problems using whole numbers, fractions, mixed numbers, and decimals.	Unit 2, Sessions 8, 12, 14 Unit 4, Sessions 6, 10, 12, 13, 20 Unit 5, Sessions 12, 13 Unit 6, Sessions 2, 5, 6, 14 Unit 6, pp 896–898 (Work Place 6D) Unit 7, Sessions 7, 8, 10–13	Home Connections, Vol. 1 HC's 4, 15, 18, 21, 34, 35, 40 Home Connections, Vol. 2 HC's 49, 52, 54–58, 62, 64, 65	Sept–May Problem Solving Nov. Calendar Collector	Set A4 Number & Operations: Long Division, Activities 1 & 2 Set A6 Number & Operations: Fraction Concepts, Activity 2 and Ind. Worksheets 2 & 3 Set A11 Number & Operations: Multiplying Decimals, Activities 1–4 and Ind. Worksheets 1–5 Bridges Practice Book, pp 10, 17, 18, 28, 30, 32, 34, 36, 40, 78, 86, 90–92, 116, 119, 120, 128, 132, 138	Informal Unit 4, Session 20 (Work Sample) Unit 6, Sessions 5, 6, 14 (Work Samples) Formal Bridges, Vol. 2, pp 498–504, 626–632 (Unit 4 Pre- and Post-Assessments) Bridges, Vol 3, pp 779–783, 902–907 (Unit 6 Pre- and Post-Assessments) Number Corner, Vol. 2, pp 320–324, 400–404 (Checkups 3, 4)
CHECKS FOR UNDERSTANDING					
Check for Understanding	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
✓ 0506.2.1 Identify prime numbers up to 50.	Unit 1, Sessions 9, 11, 12	Home Connections, Vol. 1: HC 5	Sept Computational Fluency March Problem Solving	Bridges Practice Book, p 3	Formal Unit 1, Sessions 4 & 21 (Unit Pre- and Post-Assessments)

Bridges Grade 5 Correlations to Tennessee Mathematics Standards (cont.)

STANDARD 2—NUMBER & OPERATIONS

CHECKS FOR UNDERSTANDING

Check for Understanding	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
✓ 0506.2.2 Use the prime factorization of two whole numbers to determine the greatest common factor and the least common multiple.	Unit 1, Session 9, 11–12	Home Connections, Vol. 1: HC 5	Sept Computational Fluency March Problem Solving	Bridges Practice Book, pp 3, 13, 15, 19, 89	Informal Bridges Practice Book, pp 3, 15, 89 Formal Unit 1, Sessions 4 & 21 (Unit Pre- and Post-Assessments) Number Corner, Vol. 2, pp 400–404 (Checkup 4)
✓ 0506.2.3 Use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions and decimals.	Unit 4, Sessions 11–16, 18–19, 22 Unit 6, Sessions 5–7, 14	Home Connections, Vol. 1: HC’s 23, 40, 41 Home Connections, Vol. 2: HC 51	November Calendar Grid November Calendar Collector March Computational Fluency April Computational Fluency Support Activities 23, 27, 33, 34, 35 (See Grade 5 Number Corner Blacklines)	Bridges Practice Book, pp 76, 77, 79, 107, 109, 112, 113, 130	Informal Work Samples: Unit 4, Sessions 15–16 Unit 6, Session 6 Bridges Practice Book, pages 76, 77, 107, 109, 112, 113, 130 Formal Unit Pre- and Post-Assessments Unit 4, Sessions 1 & 23 Unit 6, Sessions 1 & 19
✓ 0506.2.4 Use divisibility rules to factor numbers.	Unit 4, Session 7 Unit 4, pp 548–550 (WP 4B)	Home Connections, Vol. 1: HC 34		Bridges Practice Book, pp 67, 68, 82, 90	
✓ 0506.2.5 Make reasonable estimates of fraction and decimal sums and differences.	Unit 4, Session 12 Unit 6, Session 14		April Computational Fluency Support Activity 35 (See Grade 5 Number Corner Blacklines)	Set A6 Number & Operations: Fraction Concepts, Activity 2 and Ind. Worksheets 2 & 3 Bridges Practice Book, pp 113, 114, 118	Informal Bridges Practice Book, pp 113, 114, 118
✓ 0506.2.6 Add and subtract mixed numbers.	Unit 4, Sessions 12, 20		April Computational Fluency	Bridges Practice Book, pp 78, 80, 108, 109, 110, 119, 134	
✓ 0506.2.7 Understand the placement of the decimal point in calculations of multiplication and long division, including the placement in the estimation of the answer.				Set A11 Number & Operations: Multiplying Decimals, Activities 1–3 and Ind. Worksheets 1–3	

Bridges Grade 5 Correlations to Tennessee Mathematics Standards (cont.)

STANDARD 2—NUMBER & OPERATIONS					
CHECKS FOR UNDERSTANDING					
Check for Understanding	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
✓ 0506.2.8 Understand that division by zero is undefined.	Not explicitly addressed				
✓ 0506.2.9 Explore numbers less than 0 by extending the number line through familiar applications (e.g., temperatures below zero, owing money, measuring elevation below sea level).				Set A10 Number & Operations: Integers, Activities 1–3 and Ind. Worksheets 1–3	
✓ 0506.2.10 Use exponential notation to represent repeated multiplication of whole numbers.				Set A11 Number & Operations: Multiplying Decimals, Activity 1 (Extension 2), Activity 2 (Extension 3) Set D2 Measurement: Volume, Activity 2 (Extensions)	
STATE PERFORMANCE INDICATORS					
State Performance Indicator	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
SPI 0506.2.1 Read and write numbers from millions to millions in various contexts.	Unit 2, Session 1 Unit 6, Sessions 8, 9, 11–13 Unit 6, pp 894–895 (Work Place 6C) Unit 7, Session 8	Home Connections, Vol. 2 HC's 53–58	Dec. Computational Fluency Mar. Computational Fluency April Calendar Collector	Bridges Practice Book, pp 111, 112	Formal Bridges, Vol. 1, pp 39–43 (Individual Interview) Bridges, Vol 3, pp 779–783, 902–907 (Unit 6 Pre- and Post-Assessments) Number Corner, Vol. 2, pp 320–324, 400–404 (Checkups 3, 4)
SPI 0506.2.2 Write the prime factorization of numbers through 50 using both exponential and standard notation.	Unit 1, Session 9, 11–12	Home Connections, Vol. 1: HC 5	Sept Computational Fluency March Problem Solving	Bridges Practice Book, pp 3, 13, 15, 19, 89	Informal Bridges Practice Book, pp 3, 15, 89 Formal Unit 1, Sessions 4 & 21 (Unit Pre- and Post-Assessments) Number Corner, Vol. 2, pp 400–404 (Checkup 4)

Bridges Grade 5 Correlations to Tennessee Mathematics Standards (cont.)

STANDARD 2—NUMBER & OPERATIONS STATE PERFORMANCE INDICATORS

State Performance Indicator	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
SPI 0506.2.3 Select a reasonable solution to a real-world division problem in which the remainder must be considered.	Unit 1, Session 8 Unit 2, Session 14 Unit 4, Sessions 5, 7 Unit 4, pp 548-550 (WP 4B) Unit 6, Session 2	Home Connections, Vol. 1: HC's 21, 37 Home Connections, Vol. 2: HC 49	Feb Computational Fluency May Computational Fluency	Set A4 Number & Operations: Long Division, Activities 1 & 2 Bridges Practice Book, pp 32, 36, 64, 90	Formal Unit 1, pp 39–43 (Ind. Int.) Unit 2, Sessions 4 & 21 (Unit Pre- and Post-Assessment)
SPI 0506.2.4 Solve problems involving the division of two- and three-digit whole numbers by one- and two-digit whole numbers.	Unit 2, Sessions 15–20 Unit 4, Sessions 6–10	Home Connections, Vol. 1: HC's 19, 21, 34, 35, 41 Home Connections, Vol. 2: HC's 42, 47–49, 52, 60–61	Feb Computational Fluency May Computational Fluency	Set A4 Number & Operations: Long Division, Activities 1 & 2	Formal Unit 4, Session 21 (Unit Post-Assessment)
SPI 0506.2.5 Solve addition and subtraction problems involving both fractions and decimals.	Unit 4, Sessions 11–16, 19, 20 Unit 4, pp 617–619 (Dozens of Eggs) Unit 6, Sessions 5–7, 14 Unit 6, p 873 (Challenge) Unit 6, pp 894–895 (Work Place 6C)	Home Connections, Vol. 1 HC 41 Home Connections, Vol. 2 HC's 51, 52, 55, 56, 58	November Calendar Grid Nov. Calendar Collector March Computational Fluency April Computational Fluency	Set A6 Number & Operations: Fraction Concepts, Activities 1, 2 and Ind. Worksheets 1–3 Set A11 Number & Operations: Multiplying Decimals, Activity 4 & Ind. Worksheet 1 Bridges Practice Book, pp 76, 77, 79, 103, 107–110, 112–116, 118, 127, 129, 130, 133, 135, 137, 138	Formal Bridges, Vol. 2, pp 498–504, 626–632 (Unit 4 Pre- and Post-Assessments) Bridges, Vol 3, pp 779–783, 902–907 (Unit 6 Pre- and Post-Assessments) Number Corner Vol. 1, pp 57–68 (Baseline) Number Corner, Vol. 2, pp 320–324, 400–404 (Checkups 3, 4)
SPI 0506.2.6 Add and subtract proper and improper fractions as well as mixed numbers.	Unit 6, Sessions 5–7, 14 Unit 6, page 890 (Challenge) Unit 6, page 895 (Challenge)	Home Connections, Vol. 2: HC's 51, 56, 58	November Calendar Collector March Computational Fluency April Computational Fluency	Set A6 Number & Operations: Fraction Concepts, Activity 2 and Independent Worksheet 3 Bridges Practice Book, pp 108, 110, 118, 127, 129, 133, 134	Formal Unit 6, Sessions 1 & 19 (Unit Pre- and Post-Assessment) Number Corner Teacher's Guide, Vols. 1 & 2, pp 57–60, 320–324, 400–404 (Baseline, Checks 3, 4)

Bridges Grade 5 Correlations to Tennessee Mathematics Standards (cont.)

STANDARD 2—NUMBER & OPERATIONS					
STATE PERFORMANCE INDICATORS					
State Performance Indicator	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
SPI 0506.2.7 Recognize equivalent representations for the same number.	Unit 4, Sessions 11–13, 15, 18, 19 Unit 6, Sessions 2–5, 10–13, 15, 16 Unit 6, pp 892–898 (Work Places 6B, 6C)	Home Connections, Vol. 2 HC's 50, 54, 56, 57	November Calendar Grid February Calendar Grid Mar. Computational Fluency April Computational Fluency	Set A6 Number & Operations: Fraction Concepts, Activities 1, 2 and Ind. Worksheets 1–3 Bridges Practice Book, pp 101–106, 117	Formal Bridges, Vol. 2, pp 498–504, 626–632 (Unit 4 Pre- and Post-Assessments) Bridges, Vol 3, pp 779–783, 902–907 (Unit 6 Pre- and Post-Assessments) Number Corner, Vol. 2, pp 232–236, 320–324, 400–404 (Checkups 2–4)
SPI 0506.2.8 Write terminating decimals in the form of fractions or mixed numbers.	Unit 6, Sessions 9–13, 16	Home Connections, Vol. 2 HC's 54, 58			Formal Bridges, Vol 3, pp 779–783, 902–907 (Unit 6 Pre- and Post-Assessments)
SPI 0506.2.9 Compare whole numbers, decimals and fractions using the symbols $<$, $>$, and $=$.	Unit 6, Sessions 9, 13, 16, 17 Unit 6, pp 894–895 (WP 6C)	Home Connections, Vol. 2: HC's 51, 53, 54, 58	November Calendar Grid February Calendar Grid	Bridges Practice Book, pp 75, 77, 84, 104, 106, 115, 130	Formal Bridges, Vol 3, pp 779–783, 902–907 (Unit 6 Pre- and Post-Assessments)

STANDARD 3—ALGEBRA					
GRADE LEVEL EXPECTATIONS					
Grade Level Expectation	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
GLE 0506.3.1 Understand and use order of operations.	Unit 1, Sessions 7, 13, 14 Unit 1, pp 107–109 (WP 1B) Unit 2, Sessions 2, 3, 5–9, 11, 13 Unit 4, Session 3 Unit 7, Sessions 1, 2	Home Connections, Vol. 1 HC's 6, 7, 13, 14, 17, 18, 33, 41 Home Connections, Vol. 2 HC's 42, 47, 48, 59	Jan. Computational Fluency	Bridges Practice Book, pp 11, 12, 121, 122, 124	Formal Bridges, Vol. 1, pp 32–39, 138–144 (Unit 1 Pre & Post-Assessments) Bridges, Vol. 4, pp 942–947, 1020–1024 (Unit 7 Pre & Post Assessments)
GLE 0506.3.2 Develop and apply the concept of variable.	Unit 1, Sessions 6, 16–18 Unit 7, Sessions 2, 4–6, 9–12	Home Connections, Vol. 1 HC's 8, 25 Home Connections, Vol. 2 HC's 60, 61		Set B1 Algebra: Diagrams & Equations, Activity 1 and Ind. Worksheets 1, 2 Bridges Practice Book, pp 9, 23, 31, 124–126, 128, 134	Formal Bridges, Vol. 1, pp 32–39, 138–144 (Unit 1 Pre & Post-Assessments) Bridges, Vol. 4, pp 942–947, 1020–1024 (Unit 7 Pre & Post Assessments)

Bridges Grade 5 Correlations to Tennessee Mathematics Standards (cont.)

STANDARD 3—ALGEBRA

GRADE LEVEL EXPECTATIONS

Grade Level Expectation	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
GLE 0506.3.3 Understand and apply the substitution property.	Unit 7, Session 2 Unit 7, p 972 (Algebra Puzzle Challenge)	Home Connections, Vol. 2 HC's 60, 61			
GLE 0506.3.4 Solve single-step linear equations and inequalities.	Unit 1, Sessions 5, 6, 16–18 Unit 3, Session 6 Unit 7, Sessions 2, 4–7, 9–13	Home Connections, Vol. 1: HC's 2, 3, 8, 23, 24, 25 Home Connections, Vol. 2: HC's 61, 62, 63, 64	Nov. Problem Solving	Set B1 Algebra: Diagrams & Equations, Activity 1 and Independent Worksheets 1 & 2 Bridges Practice Book, pages 31, 124, 125, 126, 128	Informal Work Samples: Unit 1, Session 18 Unit 7, Session 12 Bridges Practice Book, pages 126, 128 Formal Bridges, Vol. 1, pp 32–39, 138–144 (Unit 1 Pre & Post Assessments) Bridges, Vol. 4, pp 942–947, 1020–1024 (Unit 7 Pre & Post Assessments)
CHECKS FOR UNDERSTANDING					
Check for Understanding	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
✓ 0506.3.1 Evaluate an expression by substituting non-negative/rational number values for letter variables in the expression.	Unit 1, Sessions 16, 17, 18 Unit 7, Sessions 2, 4–6, 8, 9, 11, 13 Unit 7, p 959 (Tile Pattern Challenge Problems) Unit 7, p 972 (Algebra Puzzle Challenge)	Home Connections, Vol. 2 HC's 60, 63, 64	November Problem Solving	Set B1 Algebra: Diagrams & Equations, Activity 1 and Ind. Worksheets 1, 2 Bridges Practice Book, pp 9, 23, 31, 124, 134	Formal Bridges, Vol. 4, pp 942–947, 1020–1024 (Unit 7 Pre- and Post-Assessments)
✓ 0506.3.2 Use variables appropriately to represent numbers whose values are not yet known.	Unit 1, Sessions 6, 16–18 Unit 7, Sessions 2, 4–6, 9–13	Home Connections, Vol. 1 HC 25 Home Connections, Vol. 2 HC's 60, 61, 63		Set B1 Algebra: Diagrams & Equations, Activity 1 and Ind. Worksheets 1, 2 Bridges Practice Book, pp 125, 126, 128	Formal Bridges, Vol. 1, pp 32–39, 138–144 (Unit 1 Pre & Post Assessments) Bridges, Vol. 4, pp 942–947, 1020–1024 (Unit 7 Pre & Post Assessments)
✓ 0506.3.3 Solve single-step linear equations using inverse operations.	Unit 1, Sessions 6, 17 Unit 7, Sessions 5, 11, 13 Unit 7, p 959 (Tile Pattern Challenge Problems)	Home Connections, Vol. 1 HC's 2, 3, 10			Formal Bridges, Vol. 4, pp 942–947, 1020–1024 (Unit 7 Pre- and Post-Assessments)

Bridges Grade 5 Correlations to Tennessee Mathematics Standards (cont.)

STANDARD 3—ALGEBRA					
CHECKS FOR UNDERSTANDING					
Check for Understanding	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
✓ 0506.3.4 Solve single-step linear inequalities and graph solutions on a number line.	Unit 1, Session 18 Unit 7, Sessions 4–7, 13	Home Connections, Vol. 2 HC 64			
✓ 0506.3.5 Determine if a given value is a solution to a linear equation/inequality.	Unit 1, Sessions 6, 16, 17 Unit 7, Sessions 4–6, 11–13	Home Connections, Vol. 1 HC's 2, 3, 10 Home Connections, Vol. 2 HC 60			Formal Bridges, Vol. 4, pp 942–947, 1020–1024 (Unit 7 Pre- and Post-Assessments)
✓ 0506.3.6 Recognize there are many numbers between any two whole numbers on the number line.	Unit 6, Sessions 13, 16 Unit 6, pp 892–893 (Work Place 6B)	Home Connections, Vol. 2: HC 58			Formal Bridges, Vol 3, pp 779–783, 902–907 (Unit 6 Pre- and Post-Assessments)
STATE PERFORMANCE INDICATORS					
State Performance Indicator	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
SPI 0506.3.1 Evaluate algebraic expressions involving decimals and fractions using order of operations.	Unit 1, Sessions 7, 13, 14 Unit 1, pp 107–109 (WP 1B) Unit 2, Sessions 2, 3, 5–9, 11, 13 Unit 4, Session 3 Unit 7, Sessions 1, 2, 9 Unit 7, p 972 (Algebra Puzzle Challenge)	Home Connections, Vol. 1 HC's 6, 7, 13, 14, 17, 18, 33, 41 Home Connections, Vol. 2 HC's 42, 47, 48, 59		Bridges Practice Book, pp 11, 12, 121, 122, 124	Formal Bridges, Vol. 1, pp 32–39, 138–144 (Unit 1 Pre & Post-Assessments) Bridges, Vol. 4, pp 942–947, 1020–1024 (Unit 7 Pre & Post Assessments)
SPI 0506.3.2 Evaluate multi-step numerical expressions involving fractions using order of operations.	Unit 1, Sessions 7, 13, 14 Unit 1, pp 107–109 (WP 1B) Unit 2, Sessions 2, 3, 5–9, 11, 13 Unit 4, Session 3 Unit 7, Sessions 1, 2 Unit 7, p 972 (Algebra Puzzle Challenge)	Home Connections, Vol. 1 HC's 6, 7, 13, 14, 17, 18, 33, 41 Home Connections, Vol. 2 HC's 42, 47, 48, 59		Bridges Practice Book, pp 11, 12, 121, 122, 124	Formal Bridges, Vol. 1, pp 32–39, 138–144 (Unit 1 Pre & Post-Assessments) Bridges, Vol. 4, pp 942–947, 1020–1024 (Unit 7 Pre & Post Assessments)
SPI 0506.3.3 Find the unknown in single-step equations involving fractions and mixed numbers.	Unit 1, Session 16, 17 Unit 3, Session 6 Unit 7, Sessions 2, 4–7, 9–13	Home Connections, Vol. 1: HC's 8, 25 Home Connections, Vol. 2: HC's 60–64	November Problem Solving	Set B1 Algebra: Diagrams & Equations, Activity 1 and Ind. Worksheets 1 & 2 Bridges Practice Book, pp 124, 125, 126, 128	Informal Work Samples: Unit 1, Session 18 Unit 7, Session 12 Bridges Practice Book, pp 126, 128 Formal Unit 7, Sessions 3 & 16 (Unit Pre- and Post-Assessments)

Bridges Grade 5 Correlations to Tennessee Mathematics Standards (cont.)

STANDARD 3—ALGEBRA

STATE PERFORMANCE INDICATORS

State Performance Indicator	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
SPI 0506.3.4 Given a set of values, identify those that make an inequality a true statement.	Unit 7, Session 2				

STANDARD 4—GEOMETRY & MEASUREMENT

GRADE LEVEL EXPECTATIONS

Grade Level Expectation	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
GLE 0506.4.1 Use basic formulas and visualization to find the area of geometric figures.	Unit 2, Session 2 Unit 3, Sessions 1–4, 16 Unit 3, p 336 (Challenge) Unit 3, pp 426–432 (Area Bingo)	Home Connections, Vol. 1 HC's 20, 23, 28	October Calendar Grid	Set C1 Geometry: Triangles & Quadrilaterals, Act 3, 4 and Ind. Worksheets 5, 6 Set D3 Measurement: Area of Polygons, Activities 1–4 and Ind. Worksheets 1–4 Bridges Practice Book, pp 20, 40, 45–47, 51–54, 58, 69, 72, 85, 91	Formal Bridges, Vol. 1, pp 195–203, 298–306 (Unit 2 Pre- and Post-Assessments) Bridges, Vol. 2, pp 356–361, 463–468 (Unit 3 Pre- and Post-Assessments) Number Corner, Vol. 1, pp 110–114 (Checkup 1) Number Corner, Vol. 2, pp 232–236, 320–324 (Checkups 2, 3)
GLE 0506.4.2 Describe polyhedral solids and analyze their properties, including volume and surface area.	Unit 3, Sessions 18–21	Home Connections, Vol. 1 HC's 24, 30, 31	December Calendar Grid January Calendar Grid April Calendar Grid	Set C3 Geometry: 3-D Shapes, Activities 1, 2 and Ind. Worksheet 1 Set D2 Measurement: Volume, Activities 1, 2 and Ind. Worksheets 1, 2 Bridges Practice Book, p. 56 Bridges Practice Book, pp 57, 59, 60, 65, 69	Formal Bridges, Vol. 2, pp 463–468 (Unit 3 Post-Assessment) Number Corner, Vol. 2, pp 232–236, 400–404 (Checkups 2, 4)
GLE 0506.4.3 Describe length/distance relationships using the first quadrant of the coordinate system.	Unit 1, Session 18 Unit 3, Sessions 16, 17 Unit 7, Sessions 4–6	Home Connections, Vol. 1 HC's 28, 29	March Calendar Grid	Set A10 Number & Operations: Integers, Activities 1–3 and Independent Worksheets 1–3	Formal Bridges, Vol. 2, pp 356–361, 463–468 (Unit 3 Pre- and Post-Assessments) Number Corner, Vol. 2, pp 320–324 (Checkup 3)

Bridges Grade 5 Correlations to Tennessee Mathematics Standards (cont.)

STANDARD 4—GEOMETRY & MEASUREMENT					
GRADE LEVEL EXPECTATIONS					
Grade Level Expectation	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
GLE 0506.4.4 Solve problems that require attention to both approximation and precision of measurement.	Unit 1, Session 1 Unit 2, Sessions 1, 2, 6 Unit 3, Sessions 1, 9, 10, 15 Unit 4, pp 553, 619–620 (WP's 4C, 4F) Unit 6, Session 13 Unit 7, Session 15 Unit 8, Sessions 2–5, 7, 9	Home Connections, Vol. 1 HC's 11, 15, 20, 26	Nov. Calendar Collector Dec. Calendar Collector Jan. Calendar Collector March Calendar Collector	Set C1 Geometry: Triangles & Quadrilaterals, Act 3, 4 and Ind. Worksheets 5, 6 Set D2 Measurement: Volume, Activities 1, 2 and Ind. Worksheets 1, 2 Set D3 Measurement: Area of Polygons, Activities 1–4 and Ind. Worksheets 1–4	Formal Bridges, Vol. 1, pp 195–203, 298–306 (Unit 2 Pre- and Post-Assessments) Bridges, Vol. 2, pp 356–361, 463–468 (Unit 3 Pre- and Post-Assessments) Number Corner, Vol. 1, pp 110–114 (Checkup 1)
CHECKS FOR UNDERSTANDING					
Check for Understanding	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
✓ 0506.4.1 Develop the formula for the area of a triangle as it relates to the area of a parallelogram/rectangle.	Unit 2, Session 2 Unit 3, Sessions 1–4, 16	Home Connections, Vol. 1 HC's 20, 23, 28	October Calendar Grid	Set C1 Geometry: Triangles & Quadrilaterals, Act 3, 4 and Ind. Worksheets 5, 6 Set D3 Measurement: Area of Polygons, Activities 1–4 and Ind. Worksheets 1–4 Bridges Practice Book, pp 45–47, 51–54, 58, 69, 72, 85, 91	Formal Bridges, Vol. 1, pp 195–203, 298–306 (Unit 2 Pre- and Post-Assessments) Bridges, Vol. 2, pp 356–361, 463–468 (Unit 3 Pre- and Post-Assessments) Number Corner, Vol. 1, pp 110–114 (Checkup 1) Number Corner, Vol. 2, pp 232–236, 320–324 (Checkups 2, 3)
✓ 0506.4.2 Find the area of a convex polygon by decomposing it into triangles/rectangles.	Unit 3, Sessions 1, 3, 4 Unit 3, p 336 (Challenge) Unit 6, pp 425–432 (WP 3A)	Home Connections, Vol. 1: HC 23	October Calendar Grid	Set C1 Geometry: Triangles & Quadrilaterals, Activities 3 & 4 and Independent Worksheets 5 & 6 Set D3 Measurement: Area of Polygons, Activity 1 and Ind. Worksheets 1, 2, 4 Bridges Practice Book, pp 20, 40, 45, 46, 47, 51, 52, 53, 54, 58, 72, 85, 91	Informal Bridges Practice Book, pp 20, 40, 45, 46, 47, 51, 52, 53, 54, 58, 72, 85, 91

Bridges Grade 5 Correlations to Tennessee Mathematics Standards (cont.)

STANDARD 4—GEOMETRY & MEASUREMENT

CHECKS FOR UNDERSTANDING

Check for Understanding	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
✓ 0506.4.3 Build, draw, and work with prisms by means of orthogonal views, projective views, and nets.	Unit 3, Sessions 18–21	Home Connections, Vol. 1 HC 30	December Calendar Grid January Calendar Grid	Set C3 Geometry: 3-D Shapes, Activity 1 and Ind. Worksheet 1	
✓ 0506.4.4 Describe and identify the five regular (Platonic) solids and their properties with respect to faces, shapes of faces, edges, and vertices.		Home Connections, Vol. 1 HC 30	December Calendar Grid January Calendar Grid April Calendar Grid	Set C3 Geometry: 3-D Shapes, Activity 1 and Ind. Worksheets 1, 2 Set D2 Measurement: Volume, Activity 1	
✓ 0506.4.5 Quantify total volume as filling space with same-sized units of volume without gaps or overlap.	Unit 3, Session 20	Home Connections, Vol. 1: HC 31	January Calendar Grid April Calendar Grid	Set D2 Measurement: Volume, Activities 1 & 2, and Independent Worksheets 1 & 2	
✓ 0506.4.6 Decompose prisms to calculate surface area and volume.	Unit 3, Sessions 19–21		January Calendar Grid April Calendar Grid	Set D2 Measurement: Volume, Activities 1 & 2, and Independent Worksheets 1 & 2 Bridges Practice Book, pp 57, 59, 60, 65, 69	Formal Unit 3, Session 22 (Unit Post-Assessment) Number Corner Teacher's Guide, pp 232–236, 400–404 (Check 2 and 4)
✓ 0506.4.7 Understand, select and use units of appropriate size and type to measure angles, lengths/ distances, area, surface area and volume.	Unit 1, Session 1 Unit 3, Sessions 1, 9, 10, 15, 20, 21 Unit 4, Sessions 6, 9 Unit 4, pp 619–620 (Measuring to Fractions of an Inch) Unit 7, Session 15 Unit 8, Sessions 1–5, 7, 9, 10	Home Connections, Vol. 1 HC's 11, 20, 21, 26	Nov. Calendar Collector March Calendar Grid May Calendar Grid	Set C1 Geometry: Triangles & Quadrilaterals, Act 3, 4 and Ind. Worksheets 5, 6 Set D2 Measurement: Volume, Activities 1, 2 and Ind. Worksheets 1, 2 Set D3 Measurement: Area of Polygons, Activities 1–4 and Ind. Worksheets 1–4 Bridges Practice Book, pp 42, 45, 47, 48, 51, 53, 57, 58, 59, 65, 74, 91	Formal Bridges, Vol. 1, pp 195–203, 298–306 (Unit 2 Pre- and Post-Assessments) Bridges, Vol. 2, pp 356–361, 463–468 (Unit 3 Pre- and Post-Assessments) Number Corner, Vol. 1, pp 110–114 (Checkup 1)

Bridges Grade 5 Correlations to Tennessee Mathematics Standards (cont.)

STANDARD 4—GEOMETRY & MEASUREMENT					
CHECKS FOR UNDERSTANDING					
Check for Understanding	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
✓ 0506.4.8 Identify characteristics of the set of points that define vertical and horizontal line segments.			March Calendar Grid		
✓ 0506.4.9 Correctly interpret significant digits in the accuracy of measurements and associated calculations.	Unit 3, Sessions 9, 10 Unit 6, Sessions 13, 16 Unit 8, Sessions 2, 4, 6, 7, 8	Home Connections, Vol. 2 HC 69	Dec Calendar Collector Jan Calendar Collector		Formal Bridges, Vol. 4, pp 1111–1114 (Unit 8 Post-Assessment)
✓ 0506.4.10 Recognize that measurements are never exact.	Unit 3, Session 1 Unit 7, Session 15 Unit 8, Sessions 4, 5, 6, 7, 8	Home Connections, Vol. 1 HC 11			
✓ 0506.4.11 Understand the usefulness of approximations.	Unit 1, Sessions 1, 3 Unit 3, Session 1				
✓ 0506.4.12 Develop strategies for choosing correct tools of measurement.	Unit 1, Session 1 Unit 3, Sessions 1, 3, 6–10, 15 Unit 4, pp 619–620 (Measuring to Fractions of an Inch) Unit 7, Session 15 Unit 8, Sessions 2–5, 7, 9, 10		Nov. Calendar Collector March Calendar Grid May Calendar Grid	Bridges Practice Book, pp 48, 58	Formal Bridges, Vol. 1, pp 195–203, 298–306 (Unit 2 Pre- and Post-Assessments)
✓ 0506.4.13 Recognize and use measures of weight and temperature.			Dec Calendar Collector January Calendar Collector		Formal Number Corner, Vol. 2, pp 320–324 (Checkup 3)
STATE PERFORMANCE INDICATORS					
State Performance Indicator	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
SPI 0506.4.1 Solve contextual problems that require calculating the area of triangles and parallelograms.	Unit 7, Sessions 10-14	Home Connections, Vol. 1: HC 20 Home Connections, Vol. 2: HC 65	September Problem Solving January Problem Solving March Problem Solving	Set C1 Geometry: Triangles & Quadrilaterals, Independent Worksheet 5 & 6 Set D3 Measurement: Area of Polygons, Activity 4 and Incl. Worksheets 3, 4 Bridges Practice Book, pp 20, 40, 46, 52, 54, 72, 85, 91	Informal Bridges Practice Book, pp 20, 40, 46, 52, 54, 72, 85, 91

Bridges Grade 5 Correlations to Tennessee Mathematics Standards (cont.)

STANDARD 4—GEOMETRY & MEASUREMENT

STATE PERFORMANCE INDICATORS

State Performance Indicator	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
SPI 0506.4.2 Decompose irregular shapes to find perimeter and area.	Unit 3, Sessions 1, 3, 4 Unit 3, p 336 (Challenge) Unit 6, pp 425–432 (WP 3A)	Home Connections, Vol. 1: HC 23	October Calendar Grid	Set C1 Geometry: Triangles & Quadrilaterals, Activities 3 & 4 and Independent Worksheets 5 & 6 Set D3 Measurement: Area of Polygons, Activity 1 and Ind. Worksheets 1, 2, 4 Bridges Practice Book, pp 20, 40, 45, 46, 47, 51, 52, 53, 54, 58, 72, 85, 91	Informal Bridges Practice Book, pp 20, 40, 45, 46, 47, 51, 52, 53, 54, 58, 72, 85, 91
SPI 0506.4.3 Identify a three-dimensional object from two-dimensional representations of that object and vice versa	Unit 3, Sessions 18–21	Home Connections, Vol. 1 HC 30	December Calendar Grid January Calendar Grid	Set C3 Geometry: 3-D Shapes, Activity 1 and Ind. Worksheet 1	
SPI 0506.4.4 Solve problems involving surface area and volume of rectangular prisms and polyhedral solids.	Unit 3, Sessions 20, 21		January Calendar Grid April Calendar Grid	Set D2 Measurement: Volume, Activities 1, 2 and Ind. Worksheets 1, 2 Bridges Practice Book, pp 57, 59, 60, 65, 69, 74	
SPI 0506.4.5 Find the length of vertical or horizontal line segments in the first quadrant of the coordinate system, including problems that require the use of fractions and decimals.	Unit 1, Session 18 Unit 3, Sessions 16, 17 Unit 7, Sessions 4–6	Home Connections, Vol. 1 HC's 28, 29	March Calendar Grid		Formal Bridges, Vol. 2, pp 356–361, 463–468 (Unit 3 Pre- and Post-Assessments) Number Corner, Vol. 2, pp 320–324 (Checkup 3)
SPI 0506.4.6 Record measurements in context to reasonable degree of accuracy using decimals and/or fractions.	Unit 6, Sessions 13, 16 Unit 8, Sessions 2–8		Nov Calendar Collector Dec Calendar Collector Jan. Calendar Collector		

Bridges Grade 5 Correlations to Tennessee Mathematics Standards (cont.)

STANDARD 5—DATA, PROBABILITY & STATISTICS					
GRADE LEVEL EXPECTATIONS					
Grade Level Expectation	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
GLE 0506.5.1 Make, record, display and interpret data and graphs that include whole numbers, decimals, and fractions.	Unit 1, Sessions 1–3, 19, 20 Unit 5, Sessions 1, 3–8, 11–16, 18 Unit 7, Session 15 Unit 8, Sessions 4–9	Home Connections, Vol. 2 HC's 42, 45, 47, 48, 52, 62, 69	Sept. Calendar Collector October Calendar Collector Dec. Calendar Collector Jan. Calendar Collector February Calendar Collector March Calendar Collector	Bridges Practice Book, pp 87, 88, 93–96, 136	Formal Bridges, Vol. 3, pp 663–666, 756–760 (Unit 5 Pre- and Post-Assessments) Bridges, Vol 3, pp 902–907 (Unit 6 Post-Assessment) Bridges, Vol. 4, pp 1111–1114 (Unit 8 Post-Assessment) Number Corner Vol. 1, pp 57–68 (Baseline) Number Corner, Vol. 2, pp 232–236, 400–404 (Checkups 2, 4)
GLE 0506.5.2 Describe the shape and important features of a set of data using the measures of central tendency.	Unit 1, Sessions 19, 20 Unit 5, Sessions 4, 5 Unit 8, Sessions 6, 8	Home Connections, Vol. 1 HC's 9, 10 Home Connections, Vol. 2 HC's 47, 69	October Calendar Collector January Calendar Collector May Problem Solving	Set A4 Number & Operations: Long Division, Activities 1, 2 Bridges Practice Book, p 87	Formal Bridges, Vol. 1, pp 32–39, 138–44 (Unit 1 Pre- and Post-Assessments) Bridges, Vol. 3, pp 663–666, 756–760 (Unit 5 Pre- and Post-Assmts) Bridges, Vol. 4, pp 1111–1114 (Unit 8 Post-Assessment) Number Corner, Vol. 1, pp 110–114 (Checkup 1) Number Corner, Vol. 2, pp 232–236, 320–324, 400–404 (Checkups 2–4)
CHECKS FOR UNDERSTANDING					
Check for Understanding	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
✓ 0506.5.1 Construct and analyze double bar and line graphs.	Unit 5, Sessions 4, 5 Unit 7, Session 7	Home Connections, Vol. 2: HC's 43, 47, 64	Dec Calendar Collector January Calendar Collector March Calendar Collector	Bridges Practice Book, pp 87, 88, 93, 136	Formal Number Corner Vol. 2, pp 232–236 (Check 2)

Bridges Grade 5 Correlations to Tennessee Mathematics Standards (cont.)

STANDARD 5—DATA, PROBABILITY & STATISTICS

CHECKS FOR UNDERSTANDING

Check for Understanding	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
✓ 0506.5.2 Represent data using ordered pairs in the first quadrant of the coordinate system.	Unit 1, Session 18 Unit 7, Sessions 4–7	Home Connections, Vol. 1: HC 29 Home Connections, Vol. 2: HC 64	March Calendar Grid		Informal Work Samples: Unit 1, Session 18 Unit 7, Session 5 Formal Unit 7, Session 16 (Unit Post-Assessment)
✓ 0506.5.3 Design investigations to address a question and consider how data collection methods affect the nature of the data set.	Unit 1, Sessions 2, 3 Unit 5, Sessions 1, 3, 12–16, 18 Unit 7, Session 15 Unit 8, Sessions 4, 5, 7, 9	Home Connections, Vol. 2 HC 48	Sept. Calendar Collector October Calendar Collector Dec. Calendar Collector February Calendar Collector		
✓ 0506.5.4 Recognize the differences in representing categorical and numerical data.	Unit 5, Sessions 1, 3, 16				
✓ 0506.5.5 Evaluate how different measures of central tendency describe data.	Unit 1, Sessions 19, 20 Unit 5, Sessions 4, 5 Unit 8, Sessions 6, 8	Home Connections, Vol. 1 HC's 9, 10 Home Connections, Vol. 2 HC 69	October Calendar Collector January Calendar Collector		Formal Bridges, Vol. 1, pp 32–39, 138–44 (Unit 1 Pre- and Post-Assessments) Bridges, Vol. 4, pp 1111–1114 (Unit 8 Post-Assessment) Number Corner, Vol. 1, pp 110–114 (Checkup 1) Number Corner, Vol. 2, pp 232–236, 320–324, 400–404 (Checks 2–4)
✓ 0506.5.6 Identify outliers and determine their effect on mean, median, mode and range.	Unit 8, p 1091 (Dialog in the middle of the page)				

Bridges Grade 5 Correlations to Tennessee Mathematics Standards (cont.)

STANDARD 5—DATA, PROBABILITY & STATISTICS

STATE PERFORMANCE INDICATORS

State Performance Indicator	Bridges	Home Connections	Number Corner	Bridges Supplement	Assessments
SPI 0506.5.1 Depict data using various representations, including decimal and/or fractional data.	Unit 1, Sessions 2, 3 Unit 5, Sessions 1, 3, 4, 6, 7, 11, 13, 14, 17 Unit 8, Sessions 5–8	Home Connections, Vol. 2 HC's 45, 47, 62, 69	Sept. Calendar Collector October Calendar Collector Dec. Calendar Collector January Calendar Collector February Calendar Collector March Calendar Collector	Bridges Practice Book, pp 88, 94, 95, 96	Formal Bridges, Vol. 3, pp 663–666, 756–760 (Unit 5 Pre- and Post-Assessments) Bridges, Vol 3, pp 902–907 (Unit 6 Post-Assessment) Bridges, Vol. 4, pp 1111–1114 (Unit 8 Post-Assessment)
SPI 0506.5.2 Make predictions based on various data representations, including double bar and line graphs.	Unit 1, Sessions 19, 20 Unit 5, Sessions 5, 6, 8, 11, 13, 14, 15 Unit 8, Sessions 5, 6, 7, 8, 9	Home Connections, Vol. 2 HC 69	Sept. Calendar Collector October Calendar Collector Dec. Calendar Collector February Calendar Collector March Calendar Collector	Bridges Practice Book, pp 87, 95	Formal Bridges, Vol. 4, pp 1111–1114 (Unit 8 Post-Assessment)
SPI 0506.5.3 Calculate measures of central tendency to analyze data.	Unit 1, Sessions 19, 20 Unit 5, Sessions 4, 5 Unit 8, Sessions 6, 8	Home Connections, Vol. 1 HC's 9, 10 Home Connections, Vol. 2 HC's 47, 69	October Calendar Collector January Calendar Collector May Problem Solving		Formal Bridges, Vol. 3, pp 663–666, 756–760 (Unit 5 Pre- and Post-Assessments) Bridges, Vol. 4, pp 1111–1114 (Unit 8 Post-Assessment) Number Corner, Vol. 1, pp 110–114 (Checkup 1) Number Corner, Vol. 2, pp 232–236, 320–324, 400–404 (Checks 2–4)

Bridges Grade 5 Correlations to Tennessee Mathematics Grade Level Expectations, Narrative

Orientation to the Program

Bridges in Mathematics enables teachers to implement the Tennessee Mathematics Standards with fidelity. Designed for use in diverse settings, the curriculum helps teachers adapt to the needs, strengths, and interests of individual students to ensure that they all meet grade level expectations.

Each grade level of the curriculum provides a year's worth of lessons with an emphasis on problem solving. Major concepts spiral within and across grade levels, allowing students to apply skills at a more sophisticated level and in different contexts, make new connections, and deepen their understandings.

Program Design & Pedagogy

Grade 5 Bridges includes the following resources, which enable teachers to implement the curriculum successfully while also refining their own practice to better serve students.

Getting Started Teachers need support to implement a new curriculum and meet new standards. The Getting Started guide provides that support with planning resources, organizational tools, guidance about effective pedagogy, and information about grade-level expectations. Review the table of contents for a detailed outline of the information contained in the guide.

Teachers Guides The Teachers Guides include material needed to implement daily lessons, activities, assessments, and homework assignments. Each of the eight units addresses a specific mathematical topic, or related topics, through a series of hour-long sessions. Sessions feature a combination of whole-group, small-group, and independent activities, as well as partner games called Work Places. These games make learning enjoyable and allow regular opportunities for teachers to work with individuals and small groups, providing differentiated learning opportunities for all students. The table below guides you to examples of the key features included in each unit.

KEY FEATURE	PAGE IN TEACHERS GUIDE, VOL. 1
Unit Introduction, Mathematical Background Information	161–164
Unit Introduction, Assessment Information	164–165
Unit Introduction, Daily Planner	167
Unit Introduction, Materials List	168–170
Session, Work Places (partner games)	287–294
Session, Technology Connection	97–98
Session, Home Connection (homework)	285–286
Unit, Answer Key	307–317

Tennessee Supplement Binder The Tennessee supplement includes the lesson plans and associated masters required to address every Grade 5 Tennessee mathematics standard. The supplement includes an introduction and alternative unit planners that help teachers replace existing Bridges sessions with supplement lessons. In this way, teachers can be confident they are addressing every state standard, without spending more time teaching additional material. The supplement includes correlations that show how the Tennessee Grade 5 Math Standards are addressed in Grade 5 Bridges.

Number Corner Teachers Guides Number Corner is the skill-building component of the Bridges curriculum. The Number Corner Teachers Guides contain a collection of daily workouts, each of which takes approximately 20 minutes. The workouts are done separately from the hour-long sessions discussed above and are designed to help students solidify key skills and concepts through regular practice and repeated exposure in different contexts.

Word Resource Cards Word Resource Cards introduce and reinforce key math vocabulary. Each card features spelling and pictures of a vocabulary word on the front and a working definition on the back. Bridges students are asked to communicate their mathematical thinking every day; using pictures and words to clarify mathematical vocabulary enables students to express their thinking with precision using these key terms.

Children’s Literature The Bridges kit includes four read-aloud books. Books are a tried-and-true way to engage students and help them make connections between different mathematical topics, as well as between mathematics and the world around them.

Manipulatives The Grade 5 Bridges kit comes with enough manipulatives to equip a class of 30 students. Manipulatives and other visual models are used in an age-appropriate manner to support students as they progress from concrete experiences to more abstract and generalized understandings and problem-solving strategies.

Relevant Research

Bridges in Mathematics draws upon classic theories of learning from Piaget and Vygotsky, and the instructional techniques and strategies employed in the curriculum are informed by current learning theory based on brain research. Writers relied especially heavily on current research regarding effective teaching practices for ELL students, differentiated instruction, and assessment. Works by Tom Carpenter, Catherine Twomey Fosnot, Maarten Dolk, Carol Ann Tomlinson, and many others have influenced the Bridges approach. A complete annotated bibliography is available for download at:

www.mathlearningcenter.org/curriculum/bridges/research/supporting-research

Bridges was developed with input from teachers, curriculum specialists, math educators, and mathematicians. The curriculum was field-tested in a variety of classroom settings over a period of two years, and data from the field was used to revise the material prior to publication.

The Math Learning Center has collected achievement data from sites using Bridges. Case studies featuring these sites show that students using Bridges have performed well across a range of classroom settings and demographic profiles. Case studies are available for download at:

www.mathlearningcenter.org/curriculum/bridges/research/student-achievement

Assessment

Bridges in Mathematics offers a variety of assessment tools that provide timely information about what students know and can do. For a comprehensive discussion of the assessment in Bridges, including examples, see pages 103–115 in *Getting Started*.

Formative assessment in Bridges takes the form of informal observations, informal interviews, work samples, and one formal interview with support materials for documenting and interpreting student responses. Formative assessments occur periodically during the course of a unit so that teachers can use the results to inform their instruction.

Summative assessment in Bridges takes the form of pre- and post-assessments that measure student growth over the course of a unit, as well as Quick Facts fluency checkups and quarterly skills checkups in Number Corner. These assessments are focused on determining whether students have achieved mastery of a particular skill or set of skills. If a student's performance indicates that he or she has not mastered a skill, the teacher is guided to provide targeted instruction through re-teaching and/or customized use of support activities with select students. Like the Tennessee standards, Bridges holds high expectations for all students, and it provides the tools teachers need to help students with diverse abilities and needs meet those expectations.

