

Prentice Hall Mathematics, Course 3 © 2008
Correlated to:
Nebraska Mathematics Academic Standards
(By the End of Grade 8)

Nebraska Mathematics Academic Standards	PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
8.1 Numeration/Number Sense	
8.1.1 By the end of eighth grade, students will recognize natural numbers whole numbers, integers, and rational numbers.	SE/TE: 10-13, 57-61
	TR: Sections 1-2, 2-2: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Sections 1-2, 2-2: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
8.1.2 By the end of eighth grade, students will determine equivalences among fractions, decimals, and percents.	SE/TE: 57—61, 210-213
	TR: Sections 2-2, 5-1: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Sections 2-2, 5-1: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
8.1.3 By the end of eighth grade, students will write and use numbers in expanded exponential form and scientific notation.	SE/TE: 92-96
	TR: Section 2-8: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Section 2-8: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
8.1.4 By the end of eighth grade, students will identify and display numbers including prime and composite, factors and multiples, divisibility, powers, and properties.	SE/TE: 26-30, 33, 38, 52-56, 62-65, 86-89, 175, 272, 586, T648
	TR: Sections 1-5, 2-1, 2-3, 2-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.

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	TECH: Sections 1-5, 2-1, 2-3, 2-7: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
8.2 Computation/Estimation	
8.2.1 By the end of eighth grade, students will add, subtract, multiply, and divide decimals and proper, improper, and mixed fractions with uncommon and common denominators with and without the use of technology.	SE/TE: 26-30, 66-76
	TR: Sections 1-5, 2-4, 2-5: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Sections 1-5, 2-4, 2-5: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
8.2.2 By the end of eighth grade, students will identify the appropriate operation and do the correct calculations when solving word problems.	SE/TE: Taught in Course 2 pages 24-25
8.2.3 By the end of eighth grade, students will solve problems involving whole numbers, integers, and rational numbers (fractions, decimals, ratios, proportions, and percents) with and without the use of technology.	SE/TE: 26-30, 66-76, 160-164, 166-170, 174-200, 206-207, 214-222, 224-227, 230-244, 246-249, 528-531
	TR: Sections 1-5, 2-4, 2-5, 4-1 through 4-7, 5-2 through 5-8, 11-4: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Sections 1-5, 2-4, 2-5, 4-1 through 4-7, 5-2 through 5-8, 11-4: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
8.2.4 By the end of eighth grade, students will apply the order of operations to solve problems with and without the use of technology.	SE/TE: 4-6, 86-88

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	TR: Sections 1-1, 2-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Sections 1-1, 2-7: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
8.2.5 By the end of eighth grade, students will apply strategies of estimation when solving problems with and without the use of technology.	SE/TE: 24, 34, 35, 68, 73, 80, 107, 109, 116, 161, 167, 175, 179, 198, 214-217, 220, 224, 230, 272, 279, 289, 370, 381, 385, 394, 454
	TR: Section 5-2: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Section 5-2: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
8.3 Measurement	
8.3.1 By the end of eighth grade, students will select measurement tools and measure quantities for temperature, time, money, distance, angles, area, perimeter, volume, capacity, and weight/mass in standard and metric units at the designated level of precision.	SE/TE: 65, 80, 89, 122, 165, 185, 195, 197-200, 302, 379, 387, 397, 402
	TR: Section 4-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Section 4-7: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
8.3.2 By the end of eighth grade, students will convert units within measurement systems using standard and metric, given conversion factors.	SE/TE: 166-170
	TR: Section 4-2: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.

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8.4 Geometry/Spatial Concepts	
8.4.1 By the end of eighth grade, students will identify, describe, compare, and classify two-and three-dimensional geometric figures such as plane figures like polygons and circles; solid figures like prisms, pyramids, cones, spheres, and cylinders; and lines, line segments, rays, angles, parallel and perpendicular lines.	SE/TE: 303-304, 307-308, 312, 318-320, 322, 325, 336, 354
	TR: Section 7-1, 7-2, 7-4: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice;Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Section 7-1, 7-2, 7-4: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
8.4.2 By the end of eighth grade, students will use geometric properties, the Pythagorean theorem, and the relationships of congruence, similarity, and symmetry.	SE/TE: 111-115, 118-122, 141-144, 181-185, 187-191, 196-200, 303-304, 307-308, 312, 316, 318-320, 322, 325, 336, 354
	TR: Section 3-2, 3-3, 3-7, 4-4, 4-5, 4-7, 7-1, 7-2, 7-4: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice;Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Section 3-2, 3-3, 3-7, 4-4, 4-5, 4-7, 7-1, 7-2, 7-4: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
8.4.3 By the end of eighth grade, students will use formulas to solve problems involving perimeter and area of a square, rectangle, parallelogram, trapezoid and triangle, as well as the area and circumference of circles.	SE/TE: 81- 85, 328-332, 336-339
	TR: Sections 2-6, 7-6, 7-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice;Adapted Practice; Reteaching; Enrichment sheets.

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	TECH: Sections 2-6, 7-6, 7-7: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; graphing calculator
8.4.4 By the end of eighth grade, students will solve problems given formulas for volume and surface area of rectangular prisms, cylinders, and cones.	SE/TE: 368-372, 374-378, 380-384, 388-391
	TR: Sections 8-4 through 8-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Sections 8-4 through 8-7: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
8.4.5 By the end of eighth grade, students will apply transformations to two-and three-dimensional geometric figures.	SE/TE: 136-138, 141-144, 146-148
	TR: Sections 3-6 through 3-8: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Sections 3-6 through 3-8: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
8.4.6 By the end of eighth grade, students will use geometric terms and representations to describe the physical world.	SE/TE: 302-303, 305, 307-308, 310, 312, 314, 316, 318, 320, 328-329, 331-332, 336-337, 341, 345, 350-351, 354-355, 358-361, 364-370, 372, 375, 377, 378, 380-381, 383, 393-394, 396, 398, 408-409
8.5 Data Analysis, Probability, and Statistical Concepts	
8.5.1 By the end of eighth grade, students will collect, construct, and interpret data displays and compute mean, median, and mode.	SE/TE: 412-417, 418-427, 433-447, 450-453, 460
	TR: Section 9-1, 9-2, 9-3, 9-5, 9-6, 9-7, 9-8: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.

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	TECH: Section 9-1, 9-2, 9-3, 9-5, 9-6, 9-7, 9-8: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
8.5.2 By the end of eighth grade, students will read and interpret tables, charts, and graphs to make comparisons and predictions.	SE/TE: 223, 245, 323, 427, 438, 440, 443-447, 475-478
	TR: Sections 9-7, 10-2: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Sections 9-7, 10-2: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
8.5.3 By the end of eighth grade, students will conduct experiments or simulations to demonstrate theoretical probability and relative frequency.	SE/TE: 245-250, 470-474, 491-494, 496-499, 501
	TR: Sections 5-8, 10-110-5, 10-6: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Sections 5-8, 10-110-5, 10-6: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
8.5.4 By the end of eighth grade, students will identify statistical methods and probability for making decisions.	SE/TE: 428-431, 444-447, 456-459, 475-478, 480-483,
	TR: Sections 9-4, 9-7, 9-9, 10-2, 10-3: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Sections 9-4, 9-7, 9-9, 10-2, 10-3: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook

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8.6 Algebraic Concepts	
8.6.1 By the end of eighth grade, students will demonstrate knowledge and use of the one- and two-dimensional coordinate systems.	SE/TE: 10-12, 124-134, 136-139, 141-144, 146-148, 281, 527-538, 546-550
	TR: Sections 1-2, 3-4 through 3-8, 11-4, 11-5, 11-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets
	TECH: Sections 1-2, 3-4 through 3-8, 11-4, 11-5, 11-7: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
8.6.2 By the end of eighth grade, students will apply algebraic concepts and operations to solve linear equations and word problems.	SE/TE: 32-36, 38-42, 271-280, 454-455, 587-588
	TR: Sections 1-6, 1-7, 6-3, 6-4: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	TECH: Sections 1-6, 1-7, 6-3, 6-4: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
8.6.3 By the end of eighth grade, students will describe and represent relations, using tables, graphs, and rules.	SE/TE: 130-134, 523-527, 533-538, 540-549
	TR: Sections 3-5, 11-3, 11-5 through 11-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets
	TECH: Sections 3-5, 11-3, 11-5 through 11-7: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook