

**Prentice Hall Mathematics, Course 2 © 2008**  
**Correlated to:**  
**Nebraska Mathematics Academic Standards**  
**(By the End of Grade 8)**

<b>Nebraska Mathematics Academic Standards</b>	<b>PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))</b>
<b>8.1 Numeration/Number Sense</b>	
<b>8.1.1</b> By the end of eighth grade, students will recognize natural numbers whole numbers, integers, and rational numbers.	<b>SE/TE:</b> 31-33, 102-105, 400-403
	<b>TR:</b> Sections 1-6, 2-7, 8-6: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Sections 1-6, 2-7, 8-6: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
<b>8.1.2</b> By the end of eighth grade, students will determine equivalences among fractions, decimals, and percents.	<b>SE/TE:</b> 278-287
	<b>TR:</b> Sections 6-2, 6-3: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Sections 6-2, 6-3: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
<b>8.1.3</b> By the end of eighth grade, students will write and use numbers in expanded exponential form and scientific notation.	<b>SE/TE:</b> 106-110
	<b>TR:</b> Section 2-8: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> 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
<b>8.1.4</b> By the end of eighth grade, students will identify and display numbers including prime and composite, factors and multiples, divisibility, powers, and properties.	<b>SE/TE:</b> 9, 15, 52, 68-71, 73-78, 80-81, 111, 664, 674
	<b>TR:</b> Sections 2-1, 2-2: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.

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	<b>TECH:</b> Sections 2-1, 2-2: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
<b>8.2 Computation/Estimation</b>	
<b>8.2.1</b> 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.	<b>SE/TE:</b> 8-10, 12-17, 19-23, 125-133, 135-145
	<b>TR:</b> Sections 1-2, 1-3, 1-4, 3-2, 3-3, 3-4, 3-5: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Sections 1-2, 1-3, 1-4, 3-2, 3-3, 3-4, 3-5: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook ; Grid Model; Classroom Aids; Student Manipulatives Kit
<b>8.2.2</b> By the end of eighth grade, students will identify the appropriate operation and do the correct calculations when solving word problems.	<b>SE/TE:</b> 24-25
<b>8.2.3</b> 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.	<b>SE/TE:</b> 8-10, 12-17, 19-23, 36-47, 125-133, 135-145, 228-236, 238-241, 243-255, 258-264, 270-271, 290-307, 310-314
	<b>TR:</b> Sections 1-2, 1-3, 1-4, 3-2, 3-3, 3-4, 3-5, 5-1 through 5-6, 6-4 through 6-8: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Sections 1-2, 1-3, 1-4, 3-2, 3-3, 3-4, 3-5, 5-1 through 5-6, 6-4 through 6-8: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
<b>8.2.4</b> By the end of eighth grade, students will apply the order of operations to solve problems with and without the use of technology.	<b>SE/TE:</b> 48-51, 68-72

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	<b>TR:</b> Sections 1-9, 2-1: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Sections 1-9, 2-1: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
<b>8.2.5</b> By the end of eighth grade, students will apply strategies of estimation when solving problems with and without the use of technology.	<b>SE/TE:</b> 4-10, 12-17, 19-23, 36-47, 126-133, 135-145, 294-308, 310-314
	<b>TR:</b> Sections 1-1, 1-2, 1-3, 1-4, 3-2, 3-3, 3-4, 3-5, 6-5, 6-6, 6-7, 6-8: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Sections 1-1, 1-2, 1-3, 1-4, 3-2, 3-3, 3-4, 3-5, 6-5, 6-6, 6-7, 6-8: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Grid Model; Classroom Aid 2, 16, 17; Student Manipulatives Kit
<b>8.3 Measurement</b>	
<b>8.3.1</b> 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.	<b>SE/TE:</b> 26-30, 148-151, 154-158, 252-256, 258-264, 329-334, 337-338, 379-392, 394-399, 414-418, 421-427, 667-669, T670
	<b>TR:</b> Sections 1-5, 3-6, 3-7, 7-2, 7-3, 8-1, 8-2, 8-3, 8-4, 8-9, 8-10: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Sections 1-5, 3-6, 3-7, 7-2, 7-3, 8-1, 8-2, 8-3, 8-4, 8-9, 8-10: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
<b>8.3.2</b> By the end of eighth grade, students will convert units within measurement systems using standard and metric, given conversion factors.	<b>SE/TE:</b> 26-30, 148-151, 667-669, T670

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	<b>TR:</b> Sections 1-5, 3-6, 3-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Sections 1-5, 3-6, 3-7: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
<b>8.4 Geometry/Spatial Concepts</b>	
<b>8.4.1</b> 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.	<b>SE/TE:</b> 324-327, 330-334, 336-344, 410-413
	<b>TR:</b> Sections 7-1, 7-2, 7-3, 8-8: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Section 7-1, 7-2, 7-3, 8-8: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
<b>8.4.2</b> By the end of eighth grade, students will use geometric properties, the Pythagorean theorem, and the relationships of congruence, similarity, and symmetry.	<b>SE/TE:</b> 251-256, 346-349, 405-408, 514-517
	<b>TR:</b> Sections 5-5, 7-5, 8-7, 10-6: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Section 5-5, 7-5, 8-7, 10-6: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Protractor; Centimeter Ruler; Student Manipulatives Kit; Computer
<b>8.4.3</b> 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.	<b>SE/TE:</b> 379-392, 394-397

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	<b>TR:</b> Sections 8-2 through 8-5: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Sections 8-2 through 8-5: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
<b>8.4.4</b> By the end of eighth grade, students will solve problems given formulas for volume and surface area of rectangular prisms, cylinders, and cones.	<b>SE/TE:</b> 414-419, 421-426
	<b>TR:</b> Sections 8-2 through 8-5: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Sections 8-2 through 8-5: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
<b>8.4.5</b> By the end of eighth grade, students will apply transformations to two-and three-dimensional geometric figures.	<b>SE/TE:</b> 509-522
	<b>TR:</b> Section 10-5, 10-6, 10-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Section 10-5, 10-6, 10-7: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Pattern Blocks
<b>8.4.6</b> By the end of eighth grade, students will use geometric terms and representations to describe the physical world.	<b>SE/TE:</b> 324-326, 330, 333, 336, 339, 340, 343, 346, 350-351, 370-371, 374-375, 380, 383, 384, 387, 388-389, 391-392, 397, 405-406, 410, 413, 414-418, 421, 423-424, 432-433
<b>8.5 Data Analysis, Probability, and Statistical Concepts</b>	
<b>8.5.1</b> By the end of eighth grade, students will collect, construct, and interpret data displays and compute mean, median, and mode.	<b>SE/TE:</b> 53-57, 532-553, 557-559, 560-564, 567-571, 576-577

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	<b>TR:</b> Sections 1-10, 11-1 through 11-4, 11-6, 11-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Sections 1-10, 11-1 through 11-4, 11-6, 11-7: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
<b>8.5.2</b> By the end of eighth grade, students will read and interpret tables, charts, and graphs to make comparisons and predictions.	<b>SE/TE:</b> 532-553, 557-559, 560-564, 567-571, 576-577
	<b>TR:</b> Sections 11-1 through 11-4, 11-6, 11-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Sections 11-1 through 11-4, 11-6, 11-7: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
<b>8.5.3</b> By the end of eighth grade, students will conduct experiments or simulations to demonstrate theoretical probability and relative frequency.	<b>SE/TE:</b> 580-595
	<b>TR:</b> Sections 12-1 through 12-3: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Sections 12-1 through 12-3 Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
<b>8.5.4</b> By the end of eighth grade, students will identify statistical methods and probability for making decisions.	<b>SE/TE:</b> 585-589, 596, 604-605
	<b>TR:</b> Section 12-2: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.

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<b>8.6 Algebraic Concepts</b>	
<b>8.6.1</b> By the end of eighth grade, students will demonstrate knowledge and use of the one- and two-dimensional coordinate systems.	<b>SE/TE:</b> 205-207, 486-502, 504-508, 510-523
	<b>TR:</b> Section 4-7, 10-1 through 10-7: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets
	<b>TECH:</b> Section 4-7, 10-1 through 10-7: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook; Graph paper
<b>8.6.2</b> By the end of eighth grade, students will apply algebraic concepts and operations to solve linear equations and word problems.	<b>SE/TE:</b> 491-494
	<b>TR:</b> Section 10-2: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Section 10-2: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook
<b>8.6.3</b> By the end of eighth grade, students will describe and represent relations, using tables, graphs, and rules.	<b>SE/TE:</b> 452-460
	<b>TR:</b> Sections 9-4, 9-5: Activity Lab; Daily Notetaking Guide; Adaptive Notetaking; Guided Problem Solving; Practice; Adapted Practice; Reteaching; Enrichment sheets.
	<b>TECH:</b> Sections 9-4, 9-5: Transparencies; PHSchool.com (web codes are on page T23); Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook