

Prentice Hall Mathematics, Course 2 (c) 2008
 Correlated to:
WYOMING MATHEMATICS CONTENT AND PERFORMANCE STANDARDS
 (Grade 7)

WYOMING MATHEMATICS CONTENT AND PERFORMANCE STANDARDS	PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
1. NUMBER OPERATIONS AND CONCEPTS	
Students use numbers, number sense, and number relationships in a problem-solving situation.	
1. Students represent and order rational numbers that are greater than or equal to 0 in a variety of equivalent forms in problem-solving situations.	SE/TE: 2D, 2, 31-34
	TR: Activity Lab 1-6, Daily Notetaking Guide 1-6, Adaptive Notetaking 1-6, Guided Problem Solving 1-6, Practice, Adapted Practice 1-6, Reteaching 1-6, Enrichment 1-6, Self-Assessment
	TECH: Transparencies 1-6, HSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook 1-6
2. Students use basic operations with integers in problem-solving situations.	SE/TE: 2D, 36-47
	TR: Activity Lab 1-7, 1-8, Daily Notetaking Guide 1-7, 1-8, Adaptive Notetaking 1-7, 1-8, Guided Problem Solving 1-7, 1-8, Practice, Adapted Practice 1-7, 1-8, Reteaching 1-7, 1-8, Enrichment 1-7, 1-8, Self-Assessment
	TECH: Transparencies 1-7, 1-8, HSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook 1-7, 1-8, Student Manipulatives Kit, Chips of two different colors, Algebra Tiles, Classroom Aid 37
3. Students divide decimal numbers by decimal numbers.	SE/TE: 19-23
	TR: Activity Lab 1-4, Daily Notetaking Guide 1-4, Adaptive Notetaking 1-4, Guided Problem Solving 1-4, Practice, Adapted Practice 1-4, Reteaching 1-4, Enrichment 1-4, Self-Assessment

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	TECH: Transparencies 1-4, HSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook 1-4, Student Manipulatives Kit, Classroom Aid 16, 17
4. Students explain their choice of estimation and problem-solving strategies and justify results when performing number operations with fractions and decimals in problem-solving situations appropriate to grade level. Students add and subtract fractions and mixed numbers.	SE/TE: 2C-2D, 4-17, 19-23, 118C, 120-123, 125-133, 135-147
	TR: Activity Lab 1-1 through 1-4, 3-1 through 3-5, Daily Notetaking Guide 1-1 through 1-4, 3-1 through 3-5, Adaptive Notetaking 1-1 through 1-4, 3-1 through 3-5, Guided Problem Solving 1-1 through 1-4, 3-1 through 3-5, Practice, Adapted Practice 1-1 through 1-4, 3-1 through 3-5, Reteaching 1-1 through 1-4, 3-1 through 3-5, Enrichment 1-1 through 1-4, 3-1 through 3-5, Self-Assessment
	TECH: Transparencies 1-1 through 1-4, 3-1 through 3-5, HSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook 1-1 through 1-4, 3-1 through 3-5, Student Manipulatives Kit, Classroom Aid 2, 12-19, Grid Models, Fraction Bars
5. Students multiply and divide fractions and mixed numbers.	SE/TE: 118C, 135-147
	TR: Activity Lab 3-4, 3-5, Daily Notetaking Guide 3-4, 3-5, Adaptive Notetaking 3-4, 3-5, Guided Problem Solving 3-4, 3-5, Practice, Adapted Practice 3-4, 3-5, Reteaching 3-4, 3-5, Enrichment 3-4, 3-5, Self-Assessment

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	<i>TECH:</i> Transparencies 3-4, 3-5, HSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 3-4, 3-5
6. Students evaluate whole numbers expressed in exponential form.	SE/TE: 66C, 68-71, 110
	<i>TR:</i> Activity Lab 2-1, Daily Notetaking Guide 2-1, Adaptive Notetaking 2-1, Guided Problem Solving 2-1, Practice, Adapted Practice 2-1, Reteaching 2-1, Enrichment 2-1, Self-Assessment
	<i>TECH:</i> Transparencies 2-1, HSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 2-1
7. Students apply the order of operations (whole numbers including grouping symbols and operations, excluding roots and powers) in problem-solving situations.	SE/TE: 2D, 48-52, 66C, 68-72
	<i>TR:</i> Activity Lab 1-9, 2-1, Daily Notetaking Guide 1-9, 2-1, Adaptive Notetaking 1-9, 2-1, Guided Problem Solving 1-9, 2-1, Practice, Adapted Practice 1-9, 2-1, Reteaching 1-9, 2-1, Enrichment 1-9, 2-1, Self-Assessment
	<i>TECH:</i> Transparencies 1-9, 2-1, HSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 1-9, 2-1, Scientific Calculator, Student Manipulatives Kit, Classroom Aid 8
2. GEOMETRY	
Students apply geometric concepts, properties, and relationships in a problem-solving situation.	
1. Students classify and describe one- and two-dimensional geometric objects, including:	
• lines, rays, segments, and angles;	SE/TE: 322C, 324-334

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	<i>TR:</i> Activity Lab 7-1, 7-2, Daily Notetaking Guide 7-1, 7-2, Adaptive Notetaking 7-1, 7-2, Guided Problem Solving 7-1, 7-2, Practice, Adapted Practice 7-1, 7-2, Reteaching 7-1, 7-2, Enrichment 7-1, 7-2, Self-Assessment
	<i>TECH:</i> Transparencies 7-1, 7-2, HSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 7-1, 7-2, Protractor
<ul style="list-style-type: none"> • parallel and perpendicular relationships; and 	SE/TE: 322C, 324-328
	<i>TR:</i> Activity Lab 7-1, Daily Notetaking Guide 7-1, Adaptive Notetaking 7-1, Guided Problem Solving 7-1, Practice, Adapted Practice 7-1, Reteaching 7-1, Enrichment 7-1, Self-Assessment
	<i>TECH:</i> Transparencies 7-1, HSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 7-1
<ul style="list-style-type: none"> • regular polygon types. 	SE/TE: 322C, 335-344
	<i>TR:</i> Activity Lab 7-3, 7-4, Daily Notetaking Guide 7-3, 7-4, Adaptive Notetaking 7-3, 7-4, Guided Problem Solving 7-3, 7-4, Practice, Adapted Practice 7-3, 7-4, Reteaching 7-3, 7-4, Enrichment 7-3, 7-4, Self-Assessment
	<i>TECH:</i> Transparencies 7-3, 7-4, HSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 7-3, 7-4, Protractor, Dot Paper
<p>2. Students make conjectures about geometric figures based on knowledge of congruence and similarity.</p>	SE/TE: 226D, 251-256, 322D, 346-349

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	TR: Activity Lab 5-5, 7-5, Daily Notetaking Guide 5-5, 7-5, Adaptive Notetaking 5-5, 7-5, Guided Problem Solving 5-5, 7-5, Practice, Adapted Practice 5-5, 7-5, Reteaching 5-5, 7-5, Enrichment 5-5, 7-5, Self-Assessment
	TECH: Transparencies 5-5, 7-5, HSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 5-5, 7-5, Protractor, Dot Paper, Centemeter Ruler
3. Students communicate the reasoning used in identifying geometric relationships in problem-solving situations appropriate to grade level.	SE/TE: 326, 327, 332, 333, 338, 339, 343, 344, 348, 349, 352, 353, 363, 370-371
3. MEASUREMENT	
Students use a variety of tools and techniques of measurement in a problem-solving situation.	
1. Students apply estimation and measurement of length to content problems and convert within the U.S. customary (in, ft, yd, mi) and within the metric system (mm, cm, m, km).	SE/TE: 2C, 26-30, 118D, 148-158, 372C, 374-378, 667-669
	TR: Activity Lab 1-5, 3-6, 3-7, 8-1, Daily Notetaking Guide 1-5, 3-6, 3-7, 8-1, Adaptive Notetaking 1-5, 3-6, 3-7, 8-1, Guided Problem Solving 1-5, 3-6, 3-7, 8-1, Practice, Adapted Practice 1-5, 3-6, 3-7, 8-1, Reteaching 1-5, 3-6, 3-7, 8-1, Enrichment 1-5, 3-6, 3-7, 8-1, Self-Assessment
	TECH: Transparencies 1-5, 3-6, 3-7, 8-1, HSchool.com (web codes are on page T83), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 1-5, 3-6, 3-7, 8-1

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2. Students apply estimation and measurement of weight to content problems expressing the results in metric units (g, kg).	SE/TE: 2C, 26-30, 158
	TR: Activity Lab 1-5, Daily Notetaking Guide 1-5, Adaptive Notetaking 1-5, Guided Problem Solving 1-5, Practice, Adapted Practice 1-5, Reteaching 1-5, Enrichment 1-5, Self-Assessment
	TECH: Transparencies 1-5, HSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook 1-5
3. Students apply estimation and measurement of capacity to content problems expressing the results in metric units (liters).	SE/TE: 2C, 26-30, 158
	TR: Activity Lab 1-5, Daily Notetaking Guide 1-5, Adaptive Notetaking 1-5, Guided Problem Solving 1-5, Practice, Adapted Practice 1-5, Reteaching 1-5, Enrichment 1-5, Self-Assessment
	TECH: Transparencies 1-5, HSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook 1-5
4. Students determine the circumference of a circle using models.	SE/TE: 372C, 393-397
	TR: Activity Lab 8-5, Daily Notetaking Guide 8-5, Adaptive Notetaking 8-5, Guided Problem Solving 8-5, Practice, Adapted Practice 8-5, Reteaching 8-5, Enrichment 8-5, Self-Assessment
	TECH: Transparencies 8-5, HSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 8-5

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5. Students calculate the areas of triangles and trapezoids.	SE/TE: 372C, 384-392
	TR: Activity Lab 8-3, 8-4, Daily Notetaking Guide 8-3, 8-4, Adaptive Notetaking 8-3, 8-4, Guided Problem Solving 8-3, 8-4, Practice, Adapted Practice 8-3, 8-4, Reteaching 8-3, 8-4, Enrichment 8-3, 8-4, Self-Assessment
	TECH: Transparencies 8-3, 8-4, HSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 8-3, 8-4
6. Students measure angles with a protractor.	SE/TE: 251, 329, 335
	TR: Activity Lab 5-5, 7-2, 7-3
	TECH: Protractor, Centimeter Ruler, Student Manipulative Kit
4. ALGEBRA	
Students use algebraic methods to investigate, model, and interpret patterns and functions involving numbers, shapes, data, and graphs in a problem-solving situation.	
1. Students translate word phrases, which involve addition and subtraction, into mathematical expressions.	SE/TE: 166C, 168-173, 191
	TR: Activity Lab 4-1, Daily Notetaking Guide 4-1, Adaptive Notetaking 4-1, Guided Problem Solving 4-1, Practice, Adapted Practice 4-1, Reteaching 4-1, Enrichment 4-1, Self-Assessment
	TECH: Transparencies 4-1, HSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom; Teacher Express CD-Rom, Interactive Textbook 4-1
2. Students solve one-step linear equations.	SE/TE: 166C, 174-184, 186-190

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	TR: Activity Lab 4-2, 4-3, 4-4, Daily Notetaking Guide 4-2, 4-3, 4-4, Adaptive Notetaking 4-2, 4-3, 4-4, Guided Problem Solving 4-2, 4-3, 4-4, Practice, Adapted Practice 4-2, 4-3, 4-4, Reteaching 4-2, 4-3, 4-4, Enrichment 4-2, 4-3, 4-4, Self-Assessment
	TECH: Transparencies 4-2, 4-3, 4-4, HSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 4-2, 4-3, 4-4, Algebra Tiles, Classroom Aid 37, Student Manipulative Kit
3. Students evaluate algebraic expressions and formulas, using order of operations, given positive integer values for variables.	SE/TE: 166C, 168-173, 191, 305, 381, 394-397, 422-425, 446-449, 452-459, 468-476
	TR: Activity Lab 4-1, 8-5, 8-10, 9-3 through 9-5, 9-7, 9-8, Daily Notetaking Guide 4-1, 8-5, 8-10, 9-3 through 9-5, 9-7, 9-8, Adaptive Notetaking 4-1, 8-5, 8-10, 9-3 through 9-5, 9-7, 9-8, Guided Problem Solving 4-1, 8-5, 8-10, 9-3 through 9-5, 9-7, 9-8, Practice, Adapted Practice 4-1, 8-5, 8-10, 9-3 through 9-5, 9-7, 9-8, Reteaching 4-1, 8-5, 8-10, 9-3 through 9-5, 9-7, 9-8, Enrichment 4-1, 8-5, 8-10, 9-3 through 9-5, 9-7, 9-8, Self-Assessment
	TECH: Transparencies 4-1, 8-5, 8-10, 9-3 through 9-5, 9-7, 9-8, HSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 4-1, 8-5, 8-10, 9-3 through 9-5, 9-7, 9-8
4. Students understand and use basic concepts of the coordinate system, including plotting points in all four quadrants.	SE/TE: 476, 484C, 486-490

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	TR: Activity Lab 10-1, Daily Notetaking Guide 10-1, Adaptive Notetaking 10-1, Guided Problem Solving 10-1, Practice, Adapted Practice 10-1, Reteaching 10-1, Enrichment 10-1, Self-Assessment
	TECH: Transparencies 10-1, HSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 10-1, Straight Edge, Graph Paper
5. DATA ANALYSIS AND PROBABILITY	
Students use data analysis and probability to analyze given situations and the results of experiments.	
1. Students systematically collect, organize, describe, and analyze data using histograms.	SE/TE: 530C, 533-536
	TR: Activity Lab 11-1, Daily Notetaking Guide 11-1, Adaptive Notetaking 11-1, Guided Problem Solving 11-1, Practice, Adapted Practice 11-1, Reteaching 11-1, Enrichment 11-1, Self-Assessment
	TECH: Transparencies 11-1, HSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 11-1
2. Students calculate mean, median, mode, and range for data sets and use in real world setting.	SE/TE: 2D, 53-57
	TR: Activity Lab 1-10, Daily Notetaking Guide 1-10, Adaptive Notetaking 1-10, Guided Problem Solving 1-10, Practice, Adapted Practice 1-10, Reteaching 1-10, Enrichment 1-10, Self-Assessment
	TECH: Transparencies 1-10, HSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 1-10

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3. Students predict, compare, and report as ratios probable outcomes of experiments or simulations (i.e., impossible, equally likely, certain).	SE/TE: 578C, 580-590
	TR: Activity Lab 12-1, 12-2, Daily Notetaking Guide 12-1, 12-2, Adaptive Notetaking 12-1, 12-2, Guided Problem Solving 12-1, 12-2, Practice, Adapted Practice 12-1, 12-2, Reteaching 12-1, 12-2, Enrichment 12-1, 12-2, Self-Assessment
	TECH: Transparencies 12-1, 12-2, HSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 12-1, 12-2