

Prentice Hall Mathematics, Course 3 (c) 2008
 Correlated to:
WYOMING MATHEMATICS CONTENT AND PERFORMANCE STANDARDS
 (Grade 8)

| WYOMING MATHEMATICS CONTENT AND PERFORMANCE STANDARDS | PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s)) |
|--|---|
| GRADE 8 | |
| 1. NUMBER OPERATIONS AND CONCEPTS | |
| Students use numbers, number sense, and number relationships in a problem-solving situation. | |
| 1. Students represent and apply numbers in a variety of equivalent forms (such as changing from percent to decimal to fraction, etc.) and in a problem-solving context: | |
| <ul style="list-style-type: none"> • prime factors, factors, and multiples, | SE/TE: 50C, 52-56, 62 |
| | TR: Activity Lab 2-1, Daily Notetaking Guide 2-1, Adaptive Notetaking 2-1, Guided Problem Solving 2-1, Practice 2-1, Adapted Practice 2-1, Reteaching 2-1, Enrichment 2-1, Self-Assessment |
| | TECH: Transparencies, 2-1 PHSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 2-1 |
| <ul style="list-style-type: none"> • rational numbers and proportions, and | SE/TE: 50C, 57-61, 158C, 172-180 |
| | TR: Activity Lab 2-2, 4-3, Daily Notetaking Guide 2-2, 4-3, Adaptive Notetaking 2-2, 4-3, Guided Problem Solving 2-2, 4-3, Practice 2-2, 4-3, Adapted Practice 2-2, 4-3, Reteaching 2-2, 4-3, Enrichment 2-2, 4-3, Self-Assessment |
| | TECH: Transparencies, 2-2, 4-3 PHSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 2-2, 4-3 |
| <ul style="list-style-type: none"> • square roots and powers. | SE/TE: 50D, 86-91, 104C, 106-110 |
| | TR: Activity Lab 2-7, 3-1, Daily Notetaking Guide 2-7, 3-1, Adaptive Notetaking 2-7, 3-1, Guided Problem Solving 2-7, 3-1, Practice 2-7, 3-1, Adapted Practice 2-7, 3-1, Reteaching 2-7, 3-1, Enrichment 2-7, 3-1, Self-Assessment |

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| | TECH: Transparencies, 2-7, 3-1 PHSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 2-7, 3-1, Graphing Calculator |
| 2. Students extend understanding and use of basic arithmetic operations on rational numbers. | |
| • Simplify numerical expressions using the order of operations, | SE/TE: 2C, 4-8, 86-90 |
| | TR: Activity Lab 1-1, 2-7, Daily Notetaking Guide 1-1, 2-7, Adaptive Notetaking 1-1, 2-7, Guided Problem Solving 1-1, 2-7, Practice 1-1, 2-7, Adapted Practice 1-1, 2-7, Reteaching 1-1, 2-7, Enrichment 1-1, 2-7, Self-Assessment |
| | TECH: Transparencies, 1-1, 2-7 PHSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 1-1, 2-7 |
| • Order rational numbers expressed in a variety of forms | SE/TE: 11-13, 50C, 62-65, 212 |
| | TR: Activity Lab 1-2, 2-3, Daily Notetaking Guide 1-2, 2-3, Adaptive Notetaking 1-2, 2-3, Guided Problem Solving 1-2, 2-3, Practice 1-2, 2-3, Adapted Practice 1-2, 2-3, Reteaching 1-2, 2-3, Enrichment 1-2, 2-3, Self-Assessment |
| | TECH: Transparencies, 1-2, 2-3 PHSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 1-2, 2-3 |
| 3. Students explain their choice of estimation and problem- solving strategies and justify results of solutions in problem-solving situations involving rational numbers. | SE/TE: 55, 56, 59, 60, 64, 65, 68, 70, 74, 75, 76, 78-80, 83, 84, 88, 89, 94, 95 |

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| 4. Students understand properties of operations with rational numbers. | SE/TE: 50C-50D, 66-69, 71-76 |
| | TR: Activity Lab 2-4, 2-5, Daily Notetaking Guide 2-4, 2-5, Adaptive Notetaking 2-4, 2-5, Guided Problem Solving 2-4, 2-5, Practice 2-4, 2-5, Adapted Practice 2-4, 2-5, Reteaching 2-4, 2-5, Enrichment 2-4, 2-5, Self-Assessment |
| | TECH: Transparencies, 2-4, 2-5 PHSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 2-4, 2-5, Grid Paper |
| 2. GEOMETRY | |
| Students apply geometric concepts, properties, and relationships in a problem-solving situation. | |
| 1. Students classify and describe one-, two-, and three-dimensional geometric objects, including: | |
| • lines, rays, segments, and angles, | SE/TE: 302-311 |
| | TR: 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 7-1, 7-2, Adapted Practice 7-1, 7-2, Reteaching 7-1, 7-2, Enrichment 7-1, 7-2, Self-Assessment |
| | TECH: Transparencies, 7-1, 7-2 PHSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 7-1, 7-2 |
| • parallel and perpendicular relationships, | SE/TE: 304, 307-311, 344 |
| | TR: Activity Lab 7-1, Daily Notetaking Guide 7-1, Adaptive Notetaking 7-1, Guided Problem Solving 7-1, Practice 7-1, Adapted Practice 7-1, Reteaching 7-1, Enrichment 7-1, Self-Assessment |

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| | TECH: Transparencies, 7-1 PHSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 7-1 |
| • circles and spheres, | SE/TE: 300D, 335-340, 352D, 393-396 |
| | TR: Activity Lab 7-7, 8-8, Daily Notetaking Guide 7-7, 8-8, Adaptive Notetaking 7-7, 8-8, Guided Problem Solving 7-7, 8-8, Practice 7-7, 8-8, Adapted Practice 7-7, 8-8, Reteaching 7-7, 8-8, Enrichment 7-7, 8-8, Self-Assessment |
| | TECH: Transparencies, 7-7, 8-8 PHSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 7-7, 8-8 |
| • regular polygon types, | SE/TE: 300D, 318-327 |
| | TR: Activity Lab 7-4, 7-5, Daily Notetaking Guide 7-4, 7-5, Adaptive Notetaking 7-4, 7-5, Guided Problem Solving 7-4, 7-5, Practice 7-4, 7-5, Adapted Practice 7-4, 7-5, Reteaching 7-4, 7-5, Enrichment 7-4, 7-5, Self-Assessment |
| | TECH: Transparencies, 7-4, 7-5 PHSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 7-4, 7-5 |
| • right prisms, cylinders, cones, and pyramids. | SE/TE: 352C, 354-366, 368-384, 387-391 |
| | TR: Activity Lab 8-1 through 8-7, Daily Notetaking Guide 8-1 through 8-7, Adaptive Notetaking 8-1 through 8-7, Guided Problem Solving 8-1 through 8-7, Practice 8-1 through 8-7, Adapted Practice 8-1 through 8-7, Reteaching 8-1 through 8-7, Enrichment 8-1 through 8-7, Self-Assessment |

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| | TECH: Transparencies, 8-1 through 8-7 PHSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 8-1 through 8-7, Graph Paper, Scissors, Compass, Cubes |
| 2. Students make conjectures about geometric objects based on knowledge of geometric transformations, congruence, and similarity. | SE/TE: 104D, 145-150, 158D, 186-191, 300C, 312-316 |
| | TR: Activity Lab 3-8, 4-5, 7-3, Daily Notetaking Guide 3-8, 4-5, 7-3, Adaptive Notetaking 3-8, 4-5, 7-3, Guided Problem Solving 3-8, 4-5, 7-3, Practice 3-8, 4-5, 7-3, Adapted Practice 3-8, 4-5, 7-3, Reteaching 3- 8, 4-5, 7-3, Enrichment 3-8, 4-5, 7-3, Self- Assessment |
| | TECH: Transparencies, 3-8, 4-5, 7-3 PHSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 3-8, 4-5, 7-3, Tracing Paper, Graph Paper, Protractor |
| 3. Students use geometric s including the Pythagorean Theorem. | SE/TE: 50D, 81-85, 104C, 111-115, 118- 121, 300D, 323-333, 336-339, 352C-352D, 368-372, 374-378, 380-386, 388-391, 393- 396 |
| | TR: Activity Lab 2-6, 3-2, 3-3, 7-5 through 7- 7, 8-4 through 8-8, Daily Notetaking Guide 2- 6, 3-2, 3-3, 7-5 through 7-7, 8-4 through 8- 8, Adaptive Notetaking 2-6, 3-2, 3-3, 7-5 through 7-7, 8-4 through 8-8, Guided Problem Solving 2-6, 3-2, 3-3, 7-5 through 7- 7, 8-4 through 8-8, Practice 2-6, 3-2, 3-3, 7- 5 through 7-7, 8-4 through 8-8, Adapted Practice 2-6, 3-2, 3-3, 7-5 through 7-7, 8-4 through 8-8, Reteaching 2-6, 3-2, 3-3, 7-5 through 7-7, 8-4 through 8-8, Enrichment 2- 6, 3-2, 3-3, 7-5 through 7-7, 8-4 through 8- 8, Self-Assessment |

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| | TECH: Transparencies, 2-6, 3-2, 3-3, 7-5 through 7-7, 8-4 through 8-8 PHSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 2-6, 3-2, 3-3, 7-5 through 7-7, 8-4 through 8-8, Graphing Calculator, Centimeter Grid Paper, Ruler, Protractor |
| 4. Students communicate the reasoning used in identifying geometric relationships in problem-solving situations appropriate to grade level. | SE/TE: 83, 84, 111, 114, 115, 120, 121, 323, 326, 327, 330, 331, 332, 338, 339, 371, 372, 373, 377, 378, 382, 383, 384, 385, 390, 391, 395, 396 |
| 5. Students represent geometric figures using a rectangular coordinate plane. | SE/TE: 104D, 136-139, 141-144, 146-148 |
| | TR: Activity Lab 3-6, through 3-8, Daily Notetaking Guide 3-6, through 3-8, Adaptive Notetaking 3-6, through 3-8, Guided Problem Solving 3-6, through 3-8, Practice 3-6, through 3-8, Adapted Practice 3-6, through 3-8, Reteaching 3-6, through 3-8, Enrichment 3-6, through 3-8, Self-Assessment |
| | TECH: Transparencies, 3-6, through 3-8 PHSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 3-6, through 3-8, Graph Paper |
| 3. MEASUREMENT | |
| Students use a variety of tools and techniques of measurement in a problem-solving situation. | |
| 1. Students apply estimation and measurement of weight/mass to content problems and convert within U.S. customary and within metric units (mg, g, kg). | SE/TE: 158C, 165-170 |

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| | <i>TR:</i> Activity Lab 4-2, Daily Notetaking Guide 4-2, Adaptive Notetaking 4-2, Guided Problem Solving 4-2, Practice 4-2, Adapted Practice 4-2, Reteaching 4-2, Enrichment 4-2, Self-Assessment |
| | <i>TECH:</i> Transparencies, 4-2 PHSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 4-2 |
| 2. Students apply estimation and measurement of capacity/volume to content problems and convert within metric units (ml, l). | <i>SE/TE:</i> 158C, 165-170 |
| | <i>TR:</i> Activity Lab 4-2, Daily Notetaking Guide 4-2, Adaptive Notetaking 4-2, Guided Problem Solving 4-2, Practice 4-2, Adapted Practice 4-2, Reteaching 4-2, Enrichment 4-2, Self-Assessment |
| | <i>TECH:</i> Transparencies, 4-2 PHSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 4-2 |
| 3. Students select and use the appropriate methods, tools, and units to solve problems involving angle measure, perimeter, circumference, area (including circles), and volume of rectangular solids. | <i>SE/TE:</i> 50D, 81-85, 111, 185, 300C-300D, 302-311, 323-334, 336-339, 379, 352D, 393-397 |
| | <i>TR:</i> Activity Lab 2-6, 7-1, 7-5 through 7-7, 8-8, Daily Notetaking Guide 2-6, 7-1, 7-5 through 7-7, 8-8, Adaptive Notetaking 2-6, 7-1, 7-5 through 7-7, 8-8, Guided Problem Solving 2-6, 7-1, 7-5 through 7-7, 8-8, Practice 2-6, 7-1, 7-5 through 7-7, 8-8, Adapted Practice 2-6, 7-1, 7-5 through 7-7, 8-8, Reteaching 2-6, 7-1, 7-5 through 7-7, 8-8, Enrichment 2-6, 7-1, 7-5 through 7-7, 8-8, Self-Assessment |

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| 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 the four basic operations to mathematical expressions. | SE/TE: 2C, 4-8, 10-13, 258C, 265-269, 510C, 512-516 |
| | TR: Activity Lab 1-1, 1-2, 6-2, 11-1, Daily Notetaking Guide 1-1, 1-2, 6-2, 11-1, Adaptive Notetaking 1-1, 1-2, 6-2, 11-1, Guided Problem Solving 1-1, 1-2, 6-2, 11-1, Practice 1-1, 1-2, 6-2, 11-1, Adapted Practice 1-1, 1-2, 6-2, 11-1, Reteaching 1-1, 1-2, 6-2, 11-1, Enrichment 1-1, 1-2, 6-2, 11-1, Self-Assessment |
| | TECH: Transparencies, 1-1, 1-2, 6-2, 11-1 PHSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 1-1, 1-2, 6-2, 11-1, Algebra Tiles |
| 2. Students solve one- and two- step linear equations each with an integer coefficient and integer solutions. | SE/TE: 2D, 32-42, 104C, 130-134, 258C, 271-278 |
| | TR: Activity Lab 1-6, 1-7, 3-5, 6-3, 6-4, Daily Notetaking Guide 1-6, 1-7, 3-5, 6-3, 6-4, Adaptive Notetaking 1-6, 1-7, 3-5, 6-3, 6-4, Guided Problem Solving 1-6, 1-7, 3-5, 6-3, 6-4, Practice 1-6, 1-7, 3-5, 6-3, 6-4, Adapted Practice 1-6, 1-7, 3-5, 6-3, 6-4, Reteaching 1-6, 1-7, 3-5, 6-3, 6-4, Enrichment 1-6, 1-7, 3-5, 6-3, 6-4, Self-Assessment |

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| | TECH: Transparencies, 1-6, 1-7, 3-5, 6-3, 6-4 PHSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 1-6, 1-7, 3-5, 6-3, 6-4, Algebrs Tiles, Blank 3-X-3 Number Squares, Graph Paper |
| 3. Students evaluate algebraic expressions and formulas given integer values for variables. | SE/TE: 2C, 4-8, 10-13, 50D, 81-85, 104C, 111-115, 118-121, 258C, 265-269, 300D, 323-333, 336-339, 358C-358D, 368-372, 374-378, 380-386, 388-391, 393-396, 510C, 512-516 |
| | TR: Activity Lab 1-1, 1-2, 2-6, 3-2, 3-3, 6-2, 7-5 through 7-7, 8-4 through 8-8, 11-1 Daily Notetaking Guide 1-1, 1-2, 2-6, 3-2, 3-3, 6-2, 7-5 through 7-7, 8-4 through 8-8, 11-1 Adaptive Notetaking 1-1, 1-2, 2-6, 3-2, 3-3, 6-2, 7-5 through 7-7, 8-4 through 8-8, 11-1 Guided Problem Solving 1-1, 1-2, 2-6, 3-2, 3-3, 6-2, 7-5 through 7-7, 8-4 through 8-8, 11-1 Practice 1-1, 1-2, 2-6, 3-2, 3-3, 6-2, 7-5 through 7-7, 8-4 through 8-8, 11-1 Adapted Practice 1-1, 1-2, 2-6, 3-2, 3-3, 6-2, 7-5 through 7-7, 8-4 through 8-8, 11-1 Reteaching 1-1, 1-2, 2-6, 3-2, 3-3, 6-2, 7-5 through 7-7, 8-4 through 8-8, 11-1 Enrichment 1-1, 1-2, 2-6, 3-2, 3-3, 6-2, 7-5 through 7-7, 8-4 through 8-8, 11-1, Self-Assessment |
| | TECH: Transparencies, 1-1, 1-2, 2-6, 3-2, 3-3, 6-2, 7-5 through 7-7, 8-4 through 8-8, 11-1, PHSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 1-1, 1-2, 2-6, 3-2, 3-3, 6-2, 7-5 through 7-7, 8-4 through 8-8, 11-1, Graphing Calculator, Centimeter Grid Paper, Ruler, Protractor |
| 4. Using simple linear equations, students create a table, and graph the solutions on the coordinate system. | SE/TE: 130-134 |

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| | TECH: Transparencies, 3-5 PHSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 3-5, 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, analyze, and represent data using tables, charts, diagrams, and graphs. | SE/TE: 410C-410D, 418-431, 433-443, 450-453 |
| | TR: Activity Lab 9-2 through 9-6, 9-8, Daily Notetaking Guide 9-2 through 9-6, 9-8, Adaptive Notetaking 9-2 through 9-6, 9-8, Guided Problem Solving 9-2 through 9-6, 9-8, Practice 9-2 through 9-6, 9-8, Adapted Practice 9-2 through 9-6, 9-8, Reteaching 9-2 through 9-6, 9-8, Enrichment 9-2 through 9-6, 9-8, Self-Assessment |
| | TECH: Transparencies, 9-2 through 9-6, 9-8 PHSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 9-2 through 9-6, 9-8, Graphing Calculator, Ruler, Measuring Tape, Yardstick, or Meter Stick, Compass |
| 2. Students calculate mean, median, mode, and range for data sets and use in a real-world setting appropriate to grade level. | SE/TE: 410C, 412-417 |
| | TR: Activity Lab 9-1, Daily Notetaking Guide 9-1, Adaptive Notetaking 9-1, Guided Problem Solving 9-1, Practice 9-1, Adapted Practice 9-1, Reteaching 9-1, Enrichment 9-1, Self-Assessment |

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| | TECH: Transparencies, 9-1 PHSchool.com (web codes are on page T93), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 9-1 |
| 3. Students predict, compare, and calculate probable outcomes of experiments or simulations. | SE/TE: 208D, 246-250, 468C-468D, 470-478, 480-489, 491-499, 501-502 |
| | TR: Activity Lab 5-8, 10-1 through 10-6, Daily Notetaking Guide 5-8, 10-1 through 10-6, Adaptive Notetaking 5-8, 10-1 through 10-6, Guided Problem Solving 5-8, 10-1 through 10-6, Practice 5-8, 10-1 through 10-6, Adapted Practice 5-8, 10-1 through 10-6, Reteaching 5-8, 10-1 through 10-6, Enrichment 5-8, 10-1 through 10-6, Self-Assessment |
| | TECH: Transparencies, 5-8, 10-1 through 10-6 PHSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 5-8, 10-1 through 10-6, Coins, Colored Cubes |
| 4. Students communicate about the likelihood of events using concepts from probability such as impossible, equally likely and certain appropriate to grade level. | SE/TE: 208D, 246-250, 472, 474, 485 |
| | TR: Activity Lab 5-8, Daily Notetaking Guide 5-8, Adaptive Notetaking 5-8, Guided Problem Solving 5-8, Practice 5-8, Adapted Practice 5-8, Reteaching 5-8, Enrichment 5-8, Self-Assessment |
| | TECH: Transparencies, 5-8 PHSchool.com (web codes are on page T23), Homework Video Tutor, Exam View CD-Rom, Teacher Express CD-Rom, Interactive Textbook 5-8, Coins |