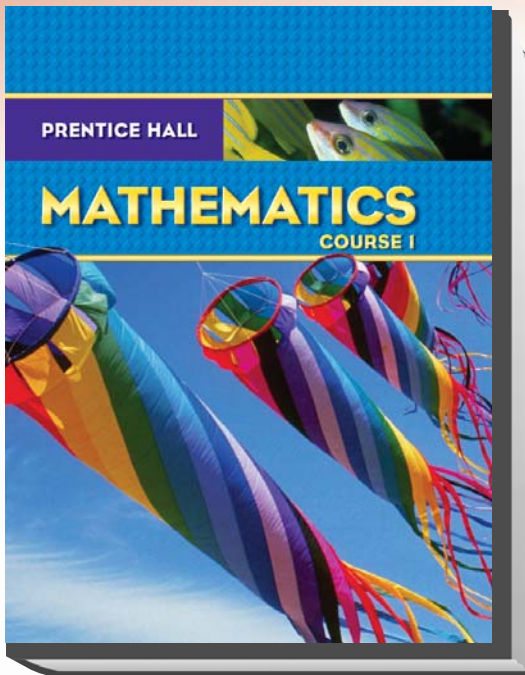


Prentice Hall

Mathematics, Course 1 © 2008



C O R R E L A T E D T O

Idaho Content Standards, Grade 6 Mathematics

PEARSON

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Prentice Hall Mathematics, Course 1 Program Organization

Prentice Hall Mathematics supports student comprehension of the mathematics by providing well organized sequence of the content, structure of the daily lesson, systematic direct instruction, and teacher support provided for each lesson.

Content Sequence - Prentice Hall is organized with the goal of addressing all of the mathematics standards through direct and effective instruction, building concept upon concept, skill upon skill in an order that is pedagogically sound. The Table of Contents shows the smooth flow of the book, with prerequisite skills and concepts presented before the more complex topics that depend on them.

Starting the Chapter - Every chapter begins by reviewing the previous standards that have been learned and overviewing the standards that will be covered in the chapter. New Vocabulary is identified to prepare students for the chapter. Finally, *Check Your Readiness* questions assess student understanding of necessary prerequisite skills and identifies which lesson they can go to for any necessary remediation.

Lesson Organization - The daily lesson is structured and presented in a consistent format that enables teachers to effectively present the content and monitor student understanding.

- The **Instant Check System** is a system of assessments that helps ensure standards mastery. It is comprised of assessments to use before, during, and after instruction so teachers can easily and effectively monitor student understanding.
 - Each lesson begins with *Check Skills You'll Need* to ensure students have the necessary prerequisite skills for success in the lesson. A Go for Help reference directs them to a previous lesson if remediation is necessary.
 - *Check Skills* questions after every single example provide a way to check student understanding during instruction.
 - Finally, *Checkpoint Quizzes* occur after instruction to continually monitor student progress.
- **Daily Standards Practice** is provided with a comprehensive exercise set following every lesson. Each exercise set is leveled to ensure a variety of practice. **Test Prep and Mixed Review** ensures students also have a daily opportunity to practice concepts and skills previously mastered.

Concluding the Chapter - The following features conclude each chapter, providing opportunities for students to review all standards and demonstrate mastery. This part of the systematic instruction provides regular opportunities for review and practice and ensures focus on and mastery of the standards.

- **Chapter Review** – The Chapter Review serves as a chapter study guide for students by reviewing the key concepts covered in each lesson and providing an opportunity to practice. In addition, key vocabulary is reviewed.
- **Chapter Test** – Students demonstrate their understanding of the entire chapter by completing this practice chapter test.
- **Test Prep Cumulative Practice** – This provides a regular opportunity for students to practice and demonstrate mastery of all the standards that have been covered. If remediation is necessary, students are directed to a previous lesson where each concept was taught.

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Assessment

Prentice Hall Mathematics provides teachers with the assessment tools needed to inform instruction and document student progress.

The **Progress Monitoring Assessments** contains all the program assessments needed to evaluate student understanding, monitor student progress, and inform future instruction. The following assessments are included:

- **Formative Assessments**
 - Screening Test – check student readiness at the beginning of the school year
 - Benchmark Tests – monitor student progress
 - Test-Taking Strategy Practice Masters – provide opportunities to improve problem-solving skills
- **Summative Assessments** – *All the summative assessments are provided in two forms – on-level and basic versions. Both forms fully assess student progress on the course content, but the basic versions have been modified for special needs students.*
 - Quarter Tests – on-level and basic versions
 - Mid-Course Tests – on-level and basic versions
 - Final Tests – on-level and basic versions

The **Test Preparation Workbook** contains review lessons and multiple-choice practice tests.

Technology, such as the **ExamView® CD-ROM**, allows teachers to create customized assessment, with all test items correlated to state standards.

Universal Access

Prentice Hall Mathematics provides better solutions for meeting the needs of every student in the classroom. Universal Access can be fostered by modifying instruction to address individual needs, and provided adapted resources when appropriate. Prentice Hall uses a systematic method for labeling and identifying resources and instructional support. This consistency helps teachers easily identify and choose the appropriate support for specific populations of students. The Teacher's Edition provides universal access strategies in detailed daily lesson plans, and daily teaching notes to help differentiate the lesson for all learners, including special needs, below level, advanced and English Language Learners. Chapter-level support pages provide teachers with an easy-to-read overview of the chapter resources available and suggest ways in the instructional lesson to use the resources. Key ancillaries to support universal access include the All-in-One Teaching Resources and the All-in-One Student Workbooks. The Teaching Resources include leveled practice for every lesson and daily activity labs. The All-in-One Student Workbook, available as both on-level and adapted for special needs, includes daily notetaking, daily practice, daily guided problem solving, and vocabulary support.

Instructional Planning and Support

Prentice Hall Mathematics is designed to provide teachers the tools needed to effectively and easily implement the program in the classroom.

A Road Map for Planning the Year - A Leveled Pacing Chart is provided in the Teacher's Edition that lays out a plan for teaching all the mathematics content standards. It suggests time to spend on each Chapter, and offers support for adjusting the instruction to meeting the pacing needs of all students.

Planning a Chapter - The Teacher's Edition begins each chapter with a series of planning pages. These pages provide an overview of the chapter and make it easy to determine how to individualize lessons for specific students.

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Planning Daily Instruction - Teachers can use a variety of program materials to organize their teaching. The primary planning tools are the Teacher's Edition and the Teacher Center Planning CD-ROM. The Teacher's Edition includes step-by-step, daily support for directing instruction. Support is organized systematically around a 4-step teaching plan of Plan, Teach, Practice, and Assess/Reteach.

Instructional Tools to Plan, Teach, and Assess:

- **Core Components**
 - **Student Edition** – Thorough coverage of the standards, with built-in assessments and ongoing student support
 - **Teacher's Edition** – Provides comprehensive support for planning, teaching, and providing Universal Access
- **Teacher Support**
 - **All-in-One Teaching Resources** - All teaching resources are in one convenient place. Includes leveled practice, chapter projects, alternative assessments, cumulative reviews, guided problem solving masters, and vocabulary support.
 - **Progress Monitoring Assessments** – Provides support for formative and summative assessment, with comprehensive resources for monitoring progress on the standards.
 - **Test Preparation Workbook** – Provides instruction and practice on specific test taking strategies.
 - **TeacherEXPRESS CD-ROM** – Powerful lesson planning software, Teacher's Edition, and Teaching Resources.
 - **PresentationEXPRESS CD-ROM** – Complete support for digital presentations of lessons including videos, activities, stepped-out examples, quick check assessments, online active math, and Mindpoint Quiz Show to review chapters.
 - **ExamView Test Generator CD-ROM** – Allows teachers to quickly and easily generate tests correlated to the standards.
- **Student Support**
 - **All-in-One Student Workbook** –
 - Structured daily notetaking pages for every lesson
 - Practice for every lesson
 - Guided problem solving pages for every lesson with scaffolded questions
 - Vocabulary and study skills focusing on key mathematical vocabulary
 - **All-in-One Student Workbook, Adapted Version** – Adapted for special needs students. Includes all the resources in the regular All-in-One Student Workbooks, in an adapted form.
 - **Student Text Online** – Complete interactive textbook with videos built-in at point-of-use, digital activities, stepped-out examples, vocabulary support – and more. Also includes the All-in-One Student Workbooks.
 - **StudentEXPRESS CD-Rom** – Interactive Textbook, Homework Video Tutors, Active Math Interactivities and Student Worksheets
 - **Companion Websites** - Grants instant access to a wealth of resources to support learning including vocabulary quizzes, lesson quizzes, data updates, tutorials, chapter tests, and homework video tutors.
- **Transparency Package**
 - **Classroom Aid Transparencies** - Full-color multi-use transparencies such as graphs, fraction strips, and manipulatives
 - **Additional Examples on Transparencies**
 - **Daily Skills Check and Lesson Quiz Transparencies**
 - **Standards Review Transparencies**
 - **Student Edition Answers on Transparencies**

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IDAHO CONTENT STANDARDS, GRADE 6 MATHEMATICS	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
Standard 1: Number and Operation	
Goal 1.1: Understand and use numbers.	
Objective 1: 6.M.1.1.1 Compare magnitudes and relative magnitudes of positive rational numbers, including whole numbers through billions, fractions, and decimals. (317.01.a, 312.01.d)	SE/TE: 5, 26-30, 156, 53, 58, 108, 156, 191, 192-195, 199, 201, 232, 243, 266, 288, 292, 304, 316, 362, 514, 520
Objective 2: 6.M.1.1.2 Explain interrelationship of fractions, decimals, and percents. (317.01.b)	SE/TE: 156D, 198-201, 331-333, 337, 352, 355, 474
Objective 3: 6.M.1.1.3 Locate the position of integers on a number line.	SE/TE: 516-519, 520-522, 524-525, 526, 530-532, 534-535, 536, 548, 578
Objective 4: 6.M.1.1.4 Convert between decimals and fractions. (317.01.b)	SE/TE: 198-201, 330, 474; Related Content: 331-334, 482
Objective 5: 6.M.1.1.5 Apply number theory concepts (prime, composite, prime factorization) and identify common factors and common multiples. (317.01.e)	SE/TE: 166-169, 171, 176, 188, 204-205
Objective 6: 6.M.1.1.6 Solve problems using the 4-step process of problem solving (explore, plan, solve, and examine). (318.01.b)	SE/TE: xxxii, 49-50, 91-92, 142-143, 196-197, 244-245, 286-287, 346-347, 396-397, 442-443, 505-506, 538-539, 595-596,
Objective 7: 6.M.1.1.7 Describe the use of integers in real-world situations. (317.01.f)	SE/TE: 516-519, 522, 526-527, 530-533, 535-537, 538-539, 540-542, 544-545
Objective 8: 6.M.1.1.8 Use appropriate vocabulary.	SE/TE: 26, 52, 166, 176, 188, 198, 520, 524
Goal 1.2: Perform computations accurately.	
Objective 1: 6.M.1.2.1 Recall basic multiplications and division facts from 12 x 12 Times Table. (317.02.d)	SE/TE: 42, 641; Related Content: 166, 168, 169, 171-174, 175, 176, 177, 179, 187, 205, 210, 225, 258, 272
Objective 2: 6.M.1.2.2 Add, subtract, multiply, and divide whole numbers, decimals, and simple fractions (including unlike denominators). (317.02.a, 317.02.b, 317.02.c, 317.02.g)	SE/TE: 2, 12, 31, 32-35, 37, 38-42, 44-47, 58, 80, 106, 122, 156, 213-225, 237, 252-253, 260-265, 267, 271-276, 282-285, 292, 298-299, 304, 309, 329, 438, 474, 476, 500, 638-642
Objective 3: 6.M.1.2.3 Evaluate numerical expressions with whole numbers using the order of operations (excluding exponents). (317.02.e)	SE/TE: 16-19, 53, 106; Related Content: 114-116, 118, 163, 165, 264, 270, 274, 275, 344, 497, 558
Objective 4: 6.M.1.2.4 Select and use an appropriate method of computation from mental math, paper and pencil, calculator or a combination of the three. (317.02.h)	SE/TE: 11, 15, 28, 30, 35, 41, 88, 120, 189, 234, 369, 428, 478, 480, 503, 560, 561, 574
Objective 5: 6.M.1.2.5 Use a variety of strategies to solve real-life problems. (318.01.a)	SE/TE: xxxiv-xli, 49, 68, 88, 91, 108-111, 114, 121, 125, 127, 131, 132, 136, 140, 142-143, 149, 178, 197, 214, 219, 221, 230, 249, 262, 263, 269, 271, 274, 284, 286, 294, 323, 330, 333, 343, 346, 47, 353, 370, 389, 396, 407, 429, 457, 492, 542, 586

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IDAHO CONTENT STANDARDS, GRADE 6 MATHEMATICS	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
Objective 6: 6.M.1.2.6 Use appropriate vocabulary and notations. (317.02.i)	SE/TE: 36, 38, 44, 46, 52, 212, 214, 217, 222, 228, 232, 261, 262, 265, 266, 272, 274, 276,
Goal 1.3: Estimate and judge reasonableness of results.	
Objective 1: 6.M.1.3.1 Estimate to predict computation results. (317.03.a)	SE/TE: 32-33, 34, 53; Related Content: 33, 39, 111, 124, 212-216, 226, 252, 266, 267, 269, 298, 300
Objective 2: 6.M.1.3.2 Explain when estimation is appropriate. (317.03.b)	SE/TE: 8
Objective 3: 6.M.1.3.3 Identify whether a given estimate is an overestimate or underestimate. (317.03.c)	SE/TE: 10; Related Content: 32, 33, 39, 41, 53, 125, 267, 277, 445, 446
Objective 4: 6.M.1.3.4 Use a four-function calculator to solve complex grade-level problems.	SE/TE: 42, 138, 163, 169, 180, 200, 232, 237, 280, 437, 440, 490, 517, 547, 586, 588, 589, 590
Objective 5: 6.M.1.3.5 Formulate conjectures and discuss why they must be or seem to be true. (318.02.c)	SE/TE: 32-33, 34, 53, 108; Related Content: xxxii-xli, 168, 184, 235, 284, 396, 397, 400, 404, 496, 532, 584, 589
Objective 6: 6.M.1.3.6 Use appropriate vocabulary. (317.03.d)	SE/TE: 9, 32, 52, 212, 252; Related Content: 36
Standard 2: Concepts and Principles of Measurement	
Goal 2.1: Understand and use U.S. customary and metric measurements.	
Objective 1: 6.M.2.1.1 Select and use appropriate units and tools to make formal measurements in both systems. (319.01.a)	SE/TE: 288-291, 296, 299, 300, 414, 416-419, 420, 456, 468, 470
Objective 2: 6.M.2.1.2 Apply estimation of measurement to real-world and content problems using standard measuring devices. (319.01.b)	SE/TE: 290-291, 419, 646; Related Content: 299, 348, 349, 350, 351
Objective 3: 6.M.2.1.3 Apply understanding of relationships to solve real-world problems related to elapsed time. (319.01.f)	SE/TE: 246-250, 253, 291; Related Content: 161, 189, 538
Objective 4: 6.M.2.1.4 Given the formulas, find the perimeter or circumference and area of triangles, circles and parallelograms (all kinds). (319.01.c, 321.01.e)	SE/TE: 203, 426-430, 431, 432, 436, 437, 444-445, 468, 551
Objective 5: 6.M.2.1.5 Convert units of measurement within each system in one-step problems (e.g., quarts to gallons and gallons to quarts). (319.01.e)	SE/TE: 292-295, 421-422; Related Content: 414, 423-424, 436
Objective 6: 6.M.2.1.6 Solve problems involving perimeter and area of rectangles. (321.01.d)	SE/TE: 203, 426-430, 431, 432, 436, 453, 468, 551
Objective 7: 6.M.2.1.7 Use appropriate vocabulary and notations. (319.01.g)	SE/TE: 288, 292, 416, 418, 421, 426, 432, 434, 438, 439, 468
Goal 2.2: Apply the concepts of rates, ratios, and proportions.	
Objective 1: 6M.2.2.1 Identify and write ratios and scales (on a map). (319.03.a)	SE/TE: 306-310, 326-329, 356, 430; Related Content: 25, 71, 354, 437

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IDAHO CONTENT STANDARDS, GRADE 6 MATHEMATICS	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
Goal 2.3: Apply dimensional analysis.	
No objectives at this grade level.	
Standard 3: Concepts and Language of Algebra and Functions	
Goal 3.1: Use algebraic symbolism as a tool to represent mathematical relationships.	
Objective 1: 6.M.3.1.1 Discuss the meaning and use of variables in simple expressions and equations. (320.01.a)	SE/TE: 113-117, 118, 124-126, 150; Related Content: 240, 563, 579
Objective 2: 6.M.3.1.2 Translate simple word statements into algebraic equations. (320.01.b)	SE/TE: xli, 124-127, 132, 136, 142-143, 242, 346, 396
Objective 3: 6.M.3.1.3 Read and use symbols of "<," ">," and "=" to express relationships. (320.01.c)	SE/TE: xli, 5, 124, 132, 136, 142-143, 169, 242, 346, 396, 578
Goal 3.2: Evaluate algebraic expressions.	
Objective 1: 6.M.3.2.1 Use the following properties in evaluating numerical expressions: commutative, associative, identity, zero, inverse, and distributive. (320.02.a)	SE/TE: 12, 13, 52, 126, 130, 138, 144-147, 148, 151, 201, 240, 253, 348, 516, 543, 565, 572-576, 582
Objective 2: 6.M.3.2.2 Evaluate simple algebraic expressions using substitution.	SE/TE: 114-116, 165, 264, 270, 274, 275, 344, 497, 558
Goal 3.3: Solve algebraic equations and inequalities.	
Objective 1: 6.M.3.3.1 Solve one-step equations with whole numbers. (320.03.a)	SE/TE: 124-127, 129, 130-133, 134-136, 138-139, 142-143
Goal 3.4: Understand the concept of functions.	
Objective 1: 6.M.3.4.1 Extend simple patterns and state a rule (function) that generates the pattern using whole numbers, decimals, and fractions as inputs. (323.01.a)	SE/TE: 42, 108-112, 162, 165, 195, 197, 216, 271, 437, 446
Objective 2: 6.M.3.4.2 Describe and extend patterns by using manipulatives and pictorial representations. (323.01.b)	SE/TE: 42, 108-112, 195, 271; Related Content: 152, 161, 165, 197, 216, 437, 446
Objective 3: 6.M.3.4.3 Use mathematical models to show change in a real-world context. (323.01.c)	SE/TE: 75, 79, 395, 555-557, 558-561, 565
Objective 4: 6.M.3.4.4 Use appropriate vocabulary. (323.01.d)	SE/TE: 108, 109, 150; Related Content: xxxv, 558, 564
Goal 3.5: Represent equations, inequalities and functions in a variety of formats.	
No objectives at this grade level.	
Goal 3.6: Apply functions to a variety of problems.	
Objective 1: 6.M.3.6.1 Use patterns to represent and solve simple problems.	SE/TE: xxxv, 108-111, 195, 197; Related Content: 42, 162, 165, 216, 271, 437, 446

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IDAHO CONTENT STANDARDS, GRADE 6 MATHEMATICS	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
Standard 4: Concepts and Principles of Geometry	
Goal 4.1: Apply concepts of size, shape, and spatial relationships.	
Objective 1: 6.M.4.1.1 Describe relationships among types of one- and two-dimensional geometric figures, using their defining properties. (321.01.a)	SE/TE: 366, 368, 374-377, 380-383, 386-390, 392-395, 409
Objective 2: 6.M.4.1.2 Draw and measure various angles and shapes using appropriate tools. (321.01.b)	SE/TE: 366, 367-371, 372-373, 377, 379, 385
Objective 3: 6.M.4.1.3 Apply fundamental concepts, properties, and relationships among points, lines, rays, and angles. (321.01.c)	SE/TE: 362-365, 366, 372-373, 374-375, 378, 408-409
Objective 4: 6.M.4.1.4 Describe reflections, translations, and rotations on various shapes. (321.01.g)	SE/TE: 402-405, 406, 409, 410, 452, 553
Objective 5: 6.M.4.1.5 Identify congruence, similarities, and line symmetry of shapes. (321.01.d)	SE/TE: 392-395, 397, 398-401, 402, 409, 447
Objective 6: 6.M.4.1.6 Discuss the spatial relationship between two- and three-dimensional objects. (321.01.f)	SE/TE: 448, 449-450; Related Content: 453-455, 461, 462-465, 468
Objective 7: 6.M.4.1.7 Use appropriate vocabulary and symbols. (323.01.h)	SE/TE: 362, 363, 367, 368, 370, 372, 375, 376, 378, 308, 381, 382, 384, 386, 387, 389, 392, 393, 394, 398, 402, 403, 404, 408
Goal 4.2: Apply the geometry of right triangles.	
No objectives at this grade level.	
Goal 4.3: Apply graphing in two dimensions.	
Objective 1: Identify and plot points in the first quadrant on a coordinate plane. (321.02.a)	SE/TE: 547-551, 553, 557, 560, 565; Related Content: 558-559
Standard 5: Data Analysis, Probability, and Statistics	
Goal 5.1: Understand data analysis.	
Objective 1: 6.M.5.1.1 Read and interpret tables, charts, and graphs, including broken line graphs, bar graphs, frequency tables, line plots, and circle graphs. (322.01.a)	SE/TE: 59-62, 66-68, 70-84, 86-90, 93-97, 104-105, 340-344, 507
Objective 2: 6.M.5.1.2 Explain and justify stated conclusions drawn from tables, charts, and graphs. (322.01.b)	SE/TE: 70-84, 86-90, 93-97, 104-105, 345
Objective 3: 6.M.5.1.3 Use appropriate vocabulary and notations. (322.01.c)	SE/TE: 61, 62, 65, 66, 67, 68, 70, 71, 72, 74, 75, 76, 80, 84, 86, 89, 100, 341
Goal 5.2: Collect, organize, and display data.	
Objective 1: 6.M.5.2.1 Collect, organize, and display the data with appropriate notion in tables, charts, and graphs, including broken line graphs, bar graphs, frequency tables and line plots. (322.02.a)	SE/TE: 64, 77, 90, 97, 202, 343, 345, 437, 491, 492

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IDAHO CONTENT STANDARDS, GRADE 6 MATHEMATICS	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
Goal 5.3: Apply simple statistical measurements.	
Objective 1: 6.M.5.3.1 Find measures of central tendency – mean, median, and mode – with simple sets of data. (322.03.a)	SE/TE: 59-64, 66-69, 70, 93, 95, 98-100
Objective 2: 6.M.5.3.2 Calculate the range of a set of data. (322.03.b)	SE/TE: 59, 71-72, 73, 74, 98, 100
Goal 5.4: Understand basic concepts of probability.	
Objective 1: 6.M.5.4.1 Predict, perform, and record results of simple probability experiments. (322.04.a)	SE/TE: 482-484, 486, 488-489, 492, 493, 508, 509
Objective 2: 6.M.5.4.2 Use the language of probability. (322.04.b)	SE/TE: 482, 483, 484, 488, 490, 493
Goal 5.5: Make predictions or decisions based on data.	
Objective 1: 6.M.5.5.1 Make predictions based on data. (318.01.c)	SE/TE: 110, 494-497, 509; Related Content: 491, 502, 507, 511

Standards link:

<http://www.sde.idaho.gov/ContentStandards/docs/Math%20Standards/ICSGrade6math.doc>