

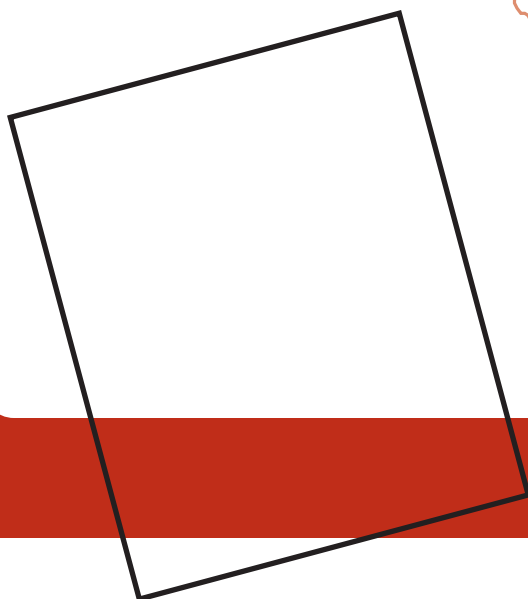
McDougal Littell

ALGEBRA 1

Larson Boswell Kanold Stiff

correlated to the

South Carolina Mathematics Standards
for Algebra 1



 **McDougal Littell**

5/2002
2001

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Introduction

to

McDougal Littell Algebra 1 © 2001 Grades 9–12

by Ron Larson, Laurie Boswell, Tim Kanold, Lee Stiff

The newest program by this experienced author team makes math accessible for the students and flexible for the teacher. Lessons include many features that provide learning support for a variety of students.

Some Special Features

- Prerequisite skill practice is provided on Study Guide pages and in the Mixed Review section of every lesson to better prepare students for the coming lessons.
- Highlighted vocabulary words occur in each lesson and in a summary list at the end of the chapter.
- A number of opportunities for teachers to introduce lessons with easy-to follow activities are included in every chapter.
- Abundant examples make it easier for students to find help when doing their homework.
- Vocabulary check, Concept check, and Skill check exercises in the Guided Practice provide teachers with numerous options for ending class and for assessing student understanding.
- Teachers have many opportunities to include graphing calculator activities and exercises in their lessons. Keystrokes are provided for easy use in the classroom.
- Internet links that directly relate to student instruction and success occur throughout every lesson. These links provide support for independent student learning, including additional examples, problem-solving help, homework help, data updates, career links, and application extensions.
- Numerous exercises in each lesson allow teachers more flexibility in making assignments and save them from needing to photocopy supplemental practice.
- Student Help notes are integrated throughout every lesson to help students with basic skills, prerequisites, study tips, common errors, and to provide homework help.
- Additional in-book practice is included in the Student Resources section at the back of the book.
- Test Preparation is included in every lesson to provide daily practice and test-taking strategies to prepare students for a variety of state and national assessments.

Teachers are supported by a wealth of ancillary materials. A complete listing of all program components is provided on the following page.

McDougal Littell Algebra 1 © 2001 Components

Pupil's Edition

Teacher's Edition

Teacher's Resource Package

Chapter Resource Books 1–12

Tips for New Teachers
Parent Guide for Student Success
Strategies for Reading Mathematics
Lesson Plans and Lesson Plans for Block Scheduling
Warm-Up Exercises and Daily Homework Quiz
Starting Points: Alternative Lesson Openers
Quick Catch-Up for Absent Students
Resource Book Answers
Prerequisite Skills Review
Practice (Levels A, B, C)
Reteaching with Practice
Challenge: Skills and Applications
Cumulative Review
Activity Support Masters
Graphing Calculator Activities with Keystrokes
Cooperative Learning Activities
Real-Life and Interdisciplinary Applications
Math and History Applications
Daily Homework Quiz
Lesson Quizzes
Chapter Review Games and Activities
Chapter Tests (Levels A, B, C)
SAT/ACT Chapter Test
Alternative Assessment with Rubrics and Math Journal
Project with Rubric
Worked-out Solution Key
Online Lesson Planner User's Guide
Algebra Tile Investigations
Basic Skills Workbook: Diagnosis and Remediation, Teacher's Edition
Practice Workbook with Examples, Teacher's Edition
Standardized Test Practice Workbook, Teacher's Edition
Warm-up Transparencies and Daily Homework Quiz

Other Ancillaries

Resources in Spanish
Multi-Language Glossary
Student Algebra Tile Kit
Overhead Algebra Tile Kit
English–Spanish Chapter Reviews and Tests
South Carolina Support for Algebra 1
South Carolina Block Scheduling Lesson Plans
Algebra for Educators
(online professional development course)

Other Transparencies:

Starting Points: Alternative Lesson Opener Transparency Package
Extra Example Transparencies with Standardized Test Practice
Answer Transparencies for Checking Homework

Workbooks:

Preparation for Middle School Math, Grade 8
Preparation for Middle School Math, Grade 8, Teacher's Edition
Basic Skills Workbook: Diagnosis and Remediation
Practice Workbook with Examples
Standardized Test Practice Workbook

Technology:

Electronic Lesson Presentations CD-ROM
Electronic Teacher Tools CD-ROM
Instant Replay: Video Review Games with Resource Book
Personal Student Tutor CD-ROM
Time-Saving Test and Practice Generator CD-ROM
Internet support (www.mcdougallittell.com), including an online lesson planner

McDougal Littell Algebra 1 © 2001

correlated to the

South Carolina Mathematics Standards for Algebra 1

Process Standards

Problem Solving Standard

Instructional programs from pre-kindergarten through grade 12 should enable all students to accomplish the following:

- build new mathematical knowledge through problem solving

PE/TE: 23, 71, 72-73, 78, 79-80, 99, 100-101, 131, 132-133, 153, 154-155, 225, 226-228, 240, 307, 308-314, 315, 316-322, 333, 334-339, 397, 398-403, 425, 426-431, 449, 450-455, 476, 477-482, 483, 484-491, 517, 518-524, 540, 541-547, 575, 603, 604-609, 610, 611-617, 683, 684-649, 729, 730-737, 738-744, 745-750, 751, 752-757

Additional TE: 60A, 60B, 60C, 60D, 128A, 128B, 128C, 128D, 200A, 200B, 200C, 200D, 270A, 270B, 270C, 270D, 330A, 330B, 330C, 330D, 394A, 394B, 394C, 394D, 446A, 446B, 446C, 446D, 500A, 500B, 500C, 500D, 572A, 572B, 572C, 572D, 640A, 640B, 640C, 640D, 706A, 706B, 706C, 706D

TRP: **Chapter Resource Books:** **Ch 2:** 24-53, 80-94; **Ch 3:** 9-21, 50-63; **Ch 4:** 50-63, 79; **Ch 5:** 77-105; **Ch 6:** 9-20; **Ch 7:** 9-22, 63-77; **Ch 8:** 9-22, 66-112; **Ch 9:** 34, 81-95; **Ch 10:** 9-22, 64-91; **Ch 11:** 91-103; **Ch 12:** 50-101

Algebra Tile Investigations: 1-51

Basic Skills Workbook: 17-22, 24-28, 61-64, 75-79, 92-105

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Standardized Test Practice Workbook: 9, 10, 13, 16, 19, 27, 37-39, 50, 56, 60, 61, 64, 67, 70, 71, 73, 79, 82-84, 88, 90-92

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TRP: **Chapter Resource Books:** **Ch 1:** 66-79; **Ch 2:** 24-53, 68-79, 95-108; **Ch 3:** 9-119; **Ch 4:** 95-107; **Ch 5:** 92-105; **Ch 6:** 9-61; **Ch 7:** 9-62, 78-93; **Ch 8:** 9-65; **Ch 9:** 9-66; **Ch 10:** 9-36, 52-63; **Ch 11:** 21-34, 64-103; **Ch 12:** 35-49, 63-81, 92-107

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Basic Skills Workbook: 17-22, 24-28, 61-64, 75-79, 92-105

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348, 354, 362, 400, 407, 413, 418-425, 434, 477, 480, 506,
572, 578, 586, 591, 592, 606, 627, 645, 649, 650, 651,
652, 672, 678, 718, 739, 788, 789, 795-796

Additional TE: 1A, 1B, 1C, 1D, 128A, 128B, 128D, 270A, 270B, 270C,
270D, 394A, 394B, 394D

TRP: **Chapter Resource Books: Ch 1:** 66-79; **Ch 3:** 64-77;
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6, 7, 23, 24, 43, 44, 57, 58

**Other Ancillaries: Extra Examples Transparencies with Standardized
Test Practice:** 10-11, 46-48, 90-91, 116-117

- monitor and reflect on the process of mathematical problem solving

PE/TE: 31, 32-37, 39, 48, 55, 95, 110, 141, 147, 160-165, 168,
204, 216, 220, 229, 258, 274, 275, 310, 315, 316-322, 342,
348, 354, 362, 400, 407, 413, 418-425, 434, 477, 480, 506,
572, 578, 586, 591, 592, 606, 627, 645, 649, 650, 651,
652, 672, 678, 718, 739, 788, 789, 795-796

Additional TE: 1A, 1B, 1C, 1D, 128A, 128B, 128D, 270A, 270B, 270C,
270D, 394A, 394B, 394D

TRP: **Chapter Resource Books: Ch 1:** 66-79; **Ch 3:** 64-77;
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Reasoning and Proof Standard

Instructional programs from pre-kindergarten through grade 12 should enable all students to accomplish the following:

- recognize reasoning and proof as fundamental aspects of mathematics

PE/TE:	13, 20, 21, 24, 49, 66-68, 70, 71, 76, 77, 78, 84, 91, 103, 106, 127, 143, 148, 149, 150, 151, 158, 159, 165, 170, 178, 185, 187-188, 206, 207, 208, 214, 215, 217, 222, 223, 230, 231, 233, 239, 245, 260, 276, 282, 290, 297, 298, 316-322, 326, 329, 339, 344, 345, 350, 372, 380, 393, 408, 409, 416, 425, 430, 431, 437, 449, 455, 460, 462, 467, 468, 475, 476, 481, 489, 508, 510, 515, 523, 538, 540, 546, 581, 599, 620, 630, 648, 654, 655, 661, 668, 669, 680, 688, 689, 696, 698, 714, 720, 726, 727, 736, 739, 742, 743, 751, 757, 758-764, 768, 769, 808
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- make and investigate mathematical conjectures

PE/TE:	71, 78, 84, 99, 113, 225, 239, 240, 307, 315, 392-393, 449, 456, 476, 483, 511, 575, 584, 587, 593, 594, 597, 603, 610, 683, 689, 729, 737, 751, 758-764
Additional TE:	706A, 706B, 706C, 706D
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- develop and evaluate mathematical arguments and proof

PE/TE: 20, 23, 66-68, 70, 71, 77, 78, 84, 99, 103, 106, 131, 148, 149, 153, 159, 178, 187-188, 222, 225, 230, 231, 233, 239, 240, 260, 282, 297, 307, 315, 333, 339, 344, 345, 350, 393, 397, 408, 409, 425, 431, 449, 455, 460, 476, 483, 517, 540, 546, 575, 599, 603, 610, 620, 648, 674, 680, 683, 689, 726, 727, 729, 736, 737, 739, 742, 743, 751, 757, 758-764, 768, 769, 808

Additional TE: 706A, 706B, 706C, 706D

TRP: **Chapter Resource Books:** **Ch 1:** 56; **Ch 2:** 27, 41, 83; **Ch 3:** 12, 53; **Ch 4:** 53, 79; **Ch 5:** 80, 95; **Ch 7:** 12, 67; **Ch 8:** 12, 69, 84; **Ch 9:** 38, 84; **Ch 10:** 12, 67, 80; **Ch 11:** 9; **Ch 12:** 53, 66, 95
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Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 209-211

- select and use various types of reasoning and methods of proof

PE/TE: 13, 20, 21, 24, 49, 66-68, 70, 71, 76, 77, 78, 84, 91, 103, 106, 127, 143, 148, 149, 150, 151, 158, 159, 165, 170, 178, 185, 187-188, 206, 207, 208, 214, 215, 217, 222, 223, 230, 231, 233, 239, 245, 260, 276, 282, 290, 297, 298, 316-322, 326, 329, 339, 344, 345, 350, 372, 380, 393, 408, 409, 416, 425, 430, 431, 437, 449, 455, 460, 462, 467, 468, 475, 476, 481, 489, 508, 510, 515, 523, 538, 540, 546, 581, 599, 620, 630, 648, 654, 655, 661, 668, 669, 680, 688, 689, 696, 698, 714, 720, 726, 727, 736, 739, 742, 743, 751, 757, 758-764, 768, 769, 808

Additional TE: 270A, 270B, 270C, 270D, 706A, 706B, 706C, 706D

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Communication Standard

Instructional programs from pre-kindergarten through grade 12 should enable all students to accomplish the following:

- organize and consolidate their mathematical thinking through communication

PE/TE:	1, 14, 19, 20, 21, 23, 30, 31, 45, 50, 61, 70, 71, 78, 84, 90, 93, 99, 106, 113, 115, 119, 129, 131, 137, 149, 153, 157, 168, 171, 178, 183, 195, 198-199, 201, 208, 209, 223, 225, 232, 240, 245, 254, 260, 271, 276, 284, 292, 301, 307, 308, 315, 321, 329, 331, 333, 365, 373, 377, 389, 392-393, 395, 397, 410, 416, 425, 437, 445, 447, 449, 454, 461, 468, 470, 474, 476, 483, 499, 501, 508, 511, 517, 538, 540, 546, 567, 571, 573, 602, 603, 610, 630, 641, 648, 668, 674, 683, 689, 696, 707, 714, 729, 732, 737, 742, 743, 751, 757, 758-764, 774-775
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- communicate their mathematical thinking coherently and clearly to peers, teachers, and others

PE/TE: 1, 14, 19, 20, 21, 23, 30, 31, 45, 50, 61, 70, 71, 78, 84, 90, 93, 99, 106, 113, 115, 119, 129, 131, 137, 149, 153, 157, 168, 171, 178, 183, 195, 198-199, 201, 208, 209, 223, 225, 232, 240, 245, 254, 260, 271, 276, 284, 292, 301, 307, 308, 315, 321, 329, 331, 333, 365, 373, 377, 389, 392-393, 395, 397, 410, 416, 425, 437, 445, 447, 449, 454, 461, 468, 470, 474, 476, 483, 499, 501, 508, 511, 517, 538, 540, 546, 567, 571, 573, 602, 603, 610, 630, 641, 648, 668, 674, 683, 689, 696, 707, 714, 729, 732, 737, 742, 743, 751, 757, 758-764, 774-775

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- analyze and evaluate the mathematical thinking and strategies of others

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- use the language of mathematics to express mathematical ideas precisely

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54, 61, 67, 70, 71, 75, 78, 82, 84, 89, 90, 93, 96, 99, 103,
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Connections Standard

Instructional programs from pre-kindergarten through grade 12 should enable all students to accomplish the following:

- recognize and use connections among mathematical ideas

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Standardized Test Practice Workbook: 11, 35, 38, 44, 45, 50, 65, 77, 90, 91, 92

Warm-Up Transparencies and Daily Homework Quiz: 13, 14, 40, 41, 50, 51, 53, 54, 70, 71, 83, 85, 98, 99, 100, 101

Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 25-27, 83-85, 90-91, 102-109, 144-145, 171-173, 202-208

- understand how mathematical ideas interconnect and build on one another to produce a coherent whole

PE/TE: 4, 6, 8, 14, 21, 22, 23, 47, 86-91, 92, 105, 136, 140, 141, 143, 149, 170, 231, 237, 239, 240, 245, 246, 283, 286, 289, 292-298, 299, 305, 315, 316-321, 344, 351, 368-373, 375-380, 398-403, 404, 424, 428, 436, 438, 452, 454, 465, 468, 497, 515, 526-531, 532, 558, 588, 592, 608, 625-631, 653, 680, 688, 713, 720, 726, 735, 737, 738-744, 745-749, 750, 751, 752-757, 762

Additional TE: 60A, 60B, 60C, 60D, 270A, 270B, 270C, 270D, 330A, 330B, 330C, 330D, 394A, 394B, 394C, 394D, 500A, 500B, 500C, 500D, 572A, 572B, 572C, 572D, 706A, 706B, 706C, 706D

(continued on next page)

TRP: **Chapter Resource Books: Ch 2:** 54-67; **Ch 5:** 49-62, 92-105; **Ch 6:** 76-103; **Ch 7:** 9-22; **Ch 9:** 52-66; **Ch 10:** 107-118; **Ch 12:** 63-107
Basic Skills Workbook: 35-39, 55-60, 66-69
Practice Workbook with Examples: 31-33, 103-105, 112-114, 120-135, 136-138, 181-183, 217-219, 257-264
Standardized Test Practice Workbook: 11, 35, 38, 44, 45, 50, 65, 77, 90, 91, 92
Warm-Up Transparencies and Daily Homework Quiz: 13, 14, 40, 41, 50, 51, 53, 54, 70, 71, 83, 85, 98, 99, 100, 101

Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 25-27, 83-85, 90-91, 102-109, 144-145, 171-173, 202-208

- recognize and apply mathematics in contexts outside of mathematics

PE/TE: 4, 13, 29, 30, 33, 34, 43, 74, 76, 84, 110, 112, 147, 150, 164, 170, 171, 174, 175, 179, 182, 186, 207, 232, 238, 246, 254, 260, 261, 274, 277, 283, 290, 297, 316-322, 338, 341, 343, 350, 357, 358, 368, 369, 372, 373, 381, 402, 410, 413, 415, 418-424, 468, 474, 477, 479, 481, 482, 489, 491, 495, 499, 506, 507, 508, 510, 530, 556, 558, 559, 565, 581, 582, 592, 594, 601, 621, 630, 651, 654, 655, 660, 662, 668, 669, 675, 689, 711, 712, 713, 720, 727, 728, 756

Additional TE: 1A, 1B, 1C, 1D, 128A, 128B, 128C, 128D, 270A, 270B, 270C, 270D, 394A, 394B, 394C, 394D

TRP: **Chapter Resource Books: Ch 1:** 66-79; **Ch 3:** 94-106; **Ch 5:** 92-105; **Ch 7:** 50-62
Practice Workbook with Examples: 13-15, 64-66, 112-114, 145-147
Standardized Test Practice Workbook: 5, 22, 38, 53
Warm-Up Transparencies and Daily Homework Quiz: 6, 7, 25, 26, 43, 44, 56, 57

Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 10-11, 51-53, 90-91, 114-115

Representation Standard

Instructional programs from pre-kindergarten through grade 12 should enable all students to accomplish the following:

- create and use representations to organize, record, and communicate mathematical ideas

PE/TE: 23, 71, 78, 99, 115, 198-199, 202-208, 225, 240, 292-298, 307, 315, 316-322, 392-393, 397, 425, 449, 476, 483, 570-571, 575, 603, 610, 683, 729, 737, 751, 774-775

Additional TE: 200A, 200B, 200C, 200D, 270A, 270B, 270C, 270D

TRP: **Chapter Resource Books: Ch 4:** 9-23; **Ch 5:** 49-76
Algebra Tile Investigations: 1-51
Basic Skills Workbook: 29-44
Practice Workbook with Examples: 70-72, 103-105, 112-114
Standardized Test Practice Workbook: 24, 35, 38
Warm-Up Transparencies and Daily Homework Quiz: 28, 29, 40, 41, 53, 44

Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 57-59, 83-85, 90-91

- select, apply, and translate among mathematical representations to solve problems

PE/TE: 32-39, 48, 55, 95, 110, 134, 141, 147, 156, 160-165, 168, 182, 198-199, 220, 229, 240, 250-255, 258, 274, 275, 307, 310, 316-322, 334, 342, 362, 392-393, 398-403, 404, 407, 413, 418, 419, 420, 434, 526-531, 532, 570-571, 586, 592, 606, 613, 627, 645, 651, 658, 666, 672, 678, 691, 718, 724, 740, 751, 774-775

Additional TE: 1A, 1B, 1C, 1D, 128A, 128B, 128D, 200A, 200B, 200C, 200D, 270A, 270B, 270C, 270D, 394A, 394B, 394C, 394D, 500A, 500B, 500C, 500D

TRP: **Chapter Resource Books: Ch 1:** 66-79; **Ch 3:** 64-77; **Ch 4:** 95-107; **Ch 5:** 92-105; **Ch 7:** 9-22; **Ch 9:** 52-66
Algebra Tile Investigations: 11-25
Basic Skills Workbook: 55-65
Practice Workbook with Examples: 13-15, 58-60, 112-114, 136-138, 181-183
Standardized Test Practice Workbook: 5, 20, 30, 38, 50, 65
Warm-Up Transparencies and Daily Homework Quiz: 6, 7, 23, 24, 34, 35, 43, 44, 53, 54, 70, 71

Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 10-11, 46-48, 72-73, 90-91, 108-109, 144-145

- use representations to model and interpret physical, social, and mathematical phenomena
- PE/TE:** 32-39, 160-165, 174-179, 234-239, 240, 250-255, 360-266, 292-298, 299, 315, 316-322, 367, 398-403, 404, 418-425, 477-483, 484-491, 492, 518-524, 525, 526-532, 533, 548-553, 554-560, 656-662, 663, 722-728
- Additional TE:** 1A, 1B, 1C, 1D, 200A, 200B, 200C, 200D, 270A, 270B, 270C, 270D, 330A, 330B, 330C, 330D, 394A, 394B, 394C, 394D, 446A, 446B, 446C, 446D, 500A, 500B, 500C, 500D, 640A, 640B, 640C, 640D, 706A, 706B, 706C, 706D
- TRP:** **Chapter Resource Books:** **Ch 1:** 66-79; **Ch 3:** 64-77, 94-106; **Ch 4:** 64-75, 95-107; **Ch 5:** 49, 92-105; **Ch 6:** 62-75; **Ch 7:** 9-22, 50-62; **Ch 8:** 66-98; **Ch 9:** 43-66, 96-124; **Ch 11:** 33-51; **Ch 12:** 35-49
Algebra Tile Investigations: 1-51
Basic Skills Workbook: 92-105
Practice Workbook with Examples: 13-15, 58-60, 64-66, 82-84, 88-90, 103-105, 112-114, 127-129, 136-138, 145-147, 166-171, 184-189, 226-228, 250-252
Standardized Test Practice Workbook: 5, 20, 22, 28, 30, 35, 38, 43, 50, 53, 60, 61, 64, 65, 68, 69
Warm-Up Transparencies and Daily Homework Quiz: 6, 7, 23-26, 32-35, 40, 41, 43, 44, 49, 50, 53, 54, 56, 57, 69-71, 73, 74, 76, 87, 88
- Other Ancillaries:** **Extra Examples Transparencies with Standardized Test Practice:** 10-11, 46-47, 51-53, 67-69, 72-73, 83-85, 90-91, 100-101, 108-109, 114-115, 132-136, 142-145, 150-153, 179-181, 197-198

Curriculum Standards

I. Understanding Functions

A. Relationships

1. Describe independent and dependent quantities in functional relationships.

PE/TE:	46-52, 80, 110, 176, 256-262, 274-278, 458, 462, 476-491, 517-524, 692-698, 709-715
Additional TE:	1A, 1B, 1C, 1D, 200A, 200B, 200C, 200D, 270A, 270B, 270C, 270D, 446A, 446B, 446D, 500A, 500B, 500C, 500D, 640A, 640B, 640C, 640D, 706A, 706B, 706C, 706D
TRP:	Chapter Resource Books: Ch 1: 93-106; Ch 4: 108-119; Ch 5: 9-20; Ch 8: 66-80; Ch 9: 34-51; Ch 11: 104-117; Ch 12: 9-21 Algebra Tile Investigations: 26-35 Practice Workbook with Examples: 19-21, 91-93, 95-97, 116-168, 178-180, 241-243, 244-246 Standardized Test Practice Workbook: 7, 31, 32, 60, 64, 85, 86 Warm-Up Transparencies and Daily Homework Quiz: 8, 10, 35, 37, 38, 64, 65, 69, 70, 92, 94, 95
Other Ancillaries:	Extra Examples Transparencies with Standardized Test Practice: 14-15, 74-78, 132-133, 142-143, 190-194

2. Gather and record data or use data sets to determine functional (systematic) relationships between quantities.

PE/TE:	207, 236-238, 292-299, 316-321, 392, 492, 525, 554-560, 570-571, 647, 714
Additional TE:	200A, 200B, 200D, 270A, 270B, 270C, 270D, 500A, 500B, 500C, 500D
TRP:	Chapter Resource Books: Ch 4: 64-75; Ch 5: 49-62, 92-105; Ch 9: 109-124 Practice Workbook with Examples: 82-84, 103-105, 112-114, 193-195 Standardized Test Practice Workbook: 28, 35, 38, 69 Warm-Up Transparencies and Daily Homework Quiz: 32, 33, 40, 41, 43, 43, 74, 76
Other Ancillaries:	Extra Examples Transparencies with Standardized Test Practice: 67-69, 83-85, 90-91, 152-153

PE = Pupil's Edition, TE = Teacher's Edition, TRP = Teacher's Resource Package
Blackline masters for the Warm-Up Transparencies and Daily Homework Quiz can be found in the Chapter Resource Books.

3. Describe functional relationships for given problem situations and write equations, inequalities, and recurrence relations to answer questions arising from the situations.

PE/TE:	33-37, 48-51, 134-137, 140-144, 160-165, 168-171, 176-179, 198, 220, 235-239, 258-261, 273-322, 334-339, 341-351, 355-358, 362-365, 400-403, 407-409, 413-415, 418-424, 428-431, 434-437, 478-482, 485-490, 535-538, 543-546, 555-559, 606-609, 613-616, 621-623, 627-630, 645-648, 651, 658-660, 663, 691, 711-714, 740
Additional TE:	1A, 1B, 1C, 1D, 128A, 128B, 128C, 128D, 200A, 200B, 200C, 200D, 270A, 270B, 270C, 270D, 330A, 330B, 330C, 330D, 394A, 394B, 394C, 394D, 446A, 446B, 446C, 446D, 500A, 500B, 500C, 500D, 572A, 572B, 572C, 572D, 640A, 640B, 640C, 640D, 706A, 706B, 706C, 706D
TRP:	Chapter Resource Books: Ch 1: 66-79, 93-106; Ch 3: 9-33, 64-106; Ch 4: 64-75, 108-119; Ch 5: 9-20; Ch 6: 9-32, 49-75; Ch 7: 9-93; Ch 8: 66-98; Ch 9: 67-95, 109-124; Ch 10: 64-118; Ch 11: 9-20, 35-51; Ch 12: 9-21 Algebra Tile Investigations: 21-25, 47-51 Practice Workbook with Examples: 13-15, 19-21, 46-51, 58-66, 82-84, 91-94, 115-120, 127-129, 136-153, 166-171, 184-189, 193-195, 208-222, 226-228, 244-246 Standardized Test Practice Workbook: 5, 7, 16, 17, 20-22, 28, 31, 32, 39, 40, 42, 43, 50-55, 60, 61 Warm-Up Transparencies and Daily Homework Quiz: 6-8, 10, 19-21, 23-26, 32, 33, 35, 37, 38, 45-47, 49, 50, 53-58, 60, 64, 65, 67, 71-74, 76-83, 85-88, 94, 95
Other Ancillaries:	Extra Examples Transparencies with Standardized Test Practice: 10-11, 14-15, 37-40, 46-53, 67-69, 74-78, 92-95, 98-101, 108-119, 132-136, 146-149, 152-153, 164-175, 179-181, 193-194

4. Represent relationships among quantities using concrete models, tables, graphs, diagrams, verbal descriptions, equations, and inequalities including representations involving computer algebra systems, spreadsheets, and graphing calculators.

PE/TE:	<i>Representing relationships appears throughout the text. For specific examples see:</i> 47, 71, 131, 173, 228, 348, 367, 406, 534, 575
Additional TE:	1A, 1B, 1C, 1D, 128A, 128B, 128C, 128D, 200A, 200B, 200C, 200D, 330A, 330B, 330C, 330D, 446A, 446B, 446C, 446D, 500A, 500B, 500C, 500D, 640A, 640B, 640C, 640D, 706A, 706B, 706C, 706D
TRP:	Chapter Resource Books: Ch 1: 93-106; Ch 3: 94-106; Ch 4: 120-133; Ch 6: 62-75; Ch 8: 66-98; Ch 9: 34-51, 108-124; Ch 11: 104-117; Ch 12: 9-21 Algebra Tile Investigations: 11-25 Basic Skills Workbook: 92-105 Practice Workbook with Examples: 19-21, 64-66, 91-93, 127-129, 166-171, 178-180, 192-194, 241-246 Standardized Test Practice Workbook: 7, 22, 31, 43, 60, 61, 64, 69, 85, 86 Warm-Up Transparencies and Daily Homework Quiz: 7, 10, 25, 26, 35, 37, 49, 50, 64, 65, 67, 69, 70, 74, 76, 92, 94, 95
Other Ancillaries:	Extra Examples Transparencies with Standardized Test Practice: 14-15, 51-53, 74-75, 100-101, 132-136, 142-143, 152-153, 190-194

5. Make judgments about units of measure and scales within a system and between systems.

PE/TE:	5, 6 (Ex. 18), 7 (Exs. 35-38), 37 (Ex. 57), 95, 181, 209, 219, 229, 248-249, 258, 274, 275, 277, 462, 472, 475, 517, 532, 711, 713 (Ex. 59)
Additional TE:	128A, 128B, 128C, 128D
TRP:	Chapter Resource Books: Ch 1: 9-22 Practice Workbook with Examples: 67-69 Standardized Test Practice Workbook: 1, 12, 23 Warm-Up Transparencies and Daily Homework Quiz: 26, 28
Other Ancillaries:	Extra Examples Transparencies with Standardized Test Practice: 54-56

6. Interpret and make inferences from explicit and recurrence functional relationships.

PE/TE:	46-52, 80, 110, 176, 256-262, 274-278, 458, 462, 476-483, 484-491, 517-524, 692-698, 709-715
Additional TE:	1A, 1B, 1C, 1D, 200A, 200B, 200C, 200D, 270A, 270B, 270C, 270D, 446A, 446B, 446C, 446D, 500A, 500B, 500C, 500D, 640A, 640B, 640C, 640D, 706A, 706B, 706C, 706D
TRP:	Chapter Resource Books: Ch 1: 93-106; Ch 4: 109-119; Ch 5: 9-20; Ch 8: 66-98; Ch 9: 34-51; Ch 11: 104-117; Ch 12: 6-21 Algebra Tile Investigations: 26-35 Practice Workbook with Examples: 19-21, 91-96, 166-171, 178-180, 241-246 Standardized Test Practice Workbook: 7, 31, 32, 60, 61, 64, 85, 86 Warm-Up Transparencies and Daily Homework Quiz: 8, 10, 35, 37, 38, 64, 65, 67, 69, 70, 92, 94, 95
Other Ancillaries:	Extra Examples Transparencies with Standardized Test Practice: 14-15, 74-78, 132-136, 142-143, 190-194

B. Linear and Quadratic Functions and Data Representations

1. Identify and sketch the general forms of linear ($y = x$) and quadratic ($y = x^2$) parent functions.

PE/TE:	46-51, 234-239, 240-249, 250-255, 256-261, 517-532
Additional TE:	1A, 1B, 1C, 1D, 200A, 200B, 200C, 200D, 500A, 500B, 500C, 500D
TRP:	Chapter Resource Books: Ch 1: 93-106; Ch 4: 64-119; Ch 9: 34-66 Algebra Tile Investigations: 16-35 Practice Workbook with Examples: 19-21, 82-93, 178-183 Standardized Test Practice Workbook: 7, 28-31, 64, 65 Warm-Up Transparencies and Daily Homework Quiz: 8, 10, 32-35, 37, 69-72
Other Ancillaries:	Extra Examples Transparencies with Standardized Test Practice: 14-15, 67-75, 142-145

2. For a variety of situations, identify and determine reasonable domain and range values for given situations.

PE/TE: 46-50, 110, 112, 258-261, 520-523, 693-695, 709-715
Additional TE: 1A, 1B, 1C, 1D, 200A, 200B, 200C, 200D, 500A, 500B, 500C, 500D, 640A, 640B, 640C, 640D, 706A, 706B, 706C, 706D
TRP: **Chapter Resource Books:** Ch 1: 92-106; Ch 4: 108-119; Ch 9: 34-51; Ch 11: 104-117; Ch 12: 9-21
Algebra Tile Investigations: 26-35
Practice Workbook with Examples: 19-21, 91-93, 178-180, 241-246
Standardized Test Practice Workbook: 7, 31, 64, 85, 86
Warm-Up Transparencies and Daily Homework Quiz: 8, 10, 35, 37, 69, 70, 92, 94, 95
Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 14-15, 74-75, 142-143, 190-194

3. Interpret situations in terms of given graphs or create situations that fit given graphs.

PE/TE: 41-45, 207, 222 (Exs. 61-63), 223 (Ex. 69), 232, 252-255, 258, 260, 271, 277 (Ex. 36), 284 (Ex. 51), 316-321, 362-365, 370, 377-380, 400-403, 420, 422 (Ex. 51), 423, 434-437, 481, 483, 486, 520, 522, 528, 530, 553 (Ex. 43), 570, 714 (Ex. 63)
Additional TE: 1A, 1B, 1C, 1D, 200A, 200B, 200C, 200D, 270A, 270B, 270C, 270D, 330A, 330B, 330C, 330D, 394A, 394B, 394C, 394D
TRP: **Chapter Resource Books:** Ch 1: 80-92; Ch 4: 95-107; Ch 5: 92-105; Ch 6: 62-75, 91-103; Ch 7: 9-22, 78-93
Practice Workbook with Examples: 16-18, 89-91, 112-114, 127-129, 133-138, 151-153
Standardized Test Practice Workbook: 6, 30, 38, 43, 45, 50, 55
Warm-Up Transparencies and Daily Homework Quiz: 7, 8, 43, 45, 49-51, 53, 58, 60
Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 12-13, 72-73, 90-91, 100-101, 105-109, 118-119

4. Represent, display, and interpret data using scatter plots, bar graphs, stem-and-leaf plots, and box-and-whiskers diagrams including representations on graphing calculators and computers.

PE/TE: 40-45, 165 (Ex. 22), 170, 182-185, 204-209, 292-299, 368, 371-373, 375-382, 392-393, 468 (Ex. 64), 647 (Ex. 46), 714, 792-793

Additional TE: 1A, 1B, 1C, 1D, 128A, 128B, 128C, 128D, 200A, 200B, 200C, 200D, 270A, 270B, 270C, 270D, 330A, 330B, 330C, 330D

TRP: **Chapter Resource Books:** Ch 1: 80-92; Ch 3: 107-119; Ch 4: 9-23; Ch 5: 49-62; Ch 6: 76-90
Basic Skills Workbook: 29-34, 40-44
Practice Workbook with Examples: 16-18, 67-69, 70-72, 103-105, 130-135
Standardized Test Practice Workbook: 6, 23, 24, 35, 44, 45
Warm-Up Transparencies and Daily Homework Quiz: 7, 8, 26-29, 40, 41, 50, 51, 53

Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 12-13, 54-59, 83-85, 102-107

5. Write a linear equation that fits a data set, check the model for “goodness-of-fit,” and make predictions using the model.

PE/TE: 292-299, 315, 316-321, 554-560

Additional TE: 270A, 270B, 270C, 270D, 500A, 500B, 500C, 500D

TRP: **Chapter Resource Books:** Ch 5: 49-62, 92-105; Ch 9: 109-124
Practice Workbook with Examples: 103-105, 112-114, 193-195
Standardized Test Practice Workbook: 35, 38, 69
Warm-Up Transparencies and Daily Homework Quiz: 40, 41, 43, 45, 74, 76

Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 83-85, 90-91, 152-153

C. Generalizations, Algebraic Symbols, and Matrices

1. Read, write, and represent very large and very small numbers in a variety of forms including exponential.

PE/TE: 449, 450-455, 456-461, 462, 463-469, 470-475, 503-510, 511-516, 784-785

Additional TE: 446A, 446B, 446C, 446D, 500A, 500B, 500C, 500D

TRP: **Chapter Resource Books: Ch 8:** 9-65; **Ch 9:** 9-33
Practice Workbook with Examples: 154-168, 172-177
Standardized Test Practice Workbook: 56-59, 62, 63
Warm-Up Transparencies and Daily Homework Quiz: 60-64, 67-69

Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 120-131, 137-141

2. Use unit analysis to check measurement computations.

PE/TE: 5, 6 (Ex. 18), 7 (Exs. 35-38), 37 (Ex. 57), 95, 156, 181, 229, 258, 274, 275, 277, 472, 475, 711, 713 (Ex. 59)

Additional TE: 1A, 1B, 1C, 1D, 60A, 60B, 60C, 60D, 128A, 128B, 128C, 128D

TRP: **Chapter Resource Books: Ch 1:** 9-22; **Ch 2:** 71-78;
Ch 3: 108-119
Practice Workbook with Examples: 67-69
Standardized Test Practice Workbook: 1, 12, 23
Warm-Up Transparencies and Daily Homework Quiz: 2, 3

Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 1-2, 28-29, 54-56

3. Given situations, determine patterns and represent generalizations algebraically.

PE/TE: 23, 93, 187-188, 205, 209, 315, 393, 449, 554-560, 585, 590-596, 619

Additional TE: 500A, 500B, 500C, 500D, 572A, 572B, 572C, 572D

TRP: **Chapter Resource Books: Ch 9:** 109-124; **Ch 10:** 37-51
Practice Workbook with Examples: 193-195
Standardized Test Practice Workbook: 69, 72
Warm-Up Transparencies and Daily Homework Quiz: 74, 75, 78, 79

Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 152-153, 159-161

4. Use symbolic representation, reasoning, and proof to verify statements about numbers.

- PE/TE:** 66, 187-188, 758-764; see also Critical Thinking and Logical Reasoning exercises. For example, 13, 24, 49, 66-68, 127, 187-188, 230, 260, 380, 393, 475, 538, 546, 668, 726, 757.
- Additional TE:** 706A, 706B, 706C, 706D
- TRP:** **Chapter Resource Books: Ch 12:** 108-119
Algebra Tile Investigations: 1-51
Practice Workbook with Examples: 265-267
Standardized Test Practice Workbook: 93
Warm-Up Transparencies and Daily Homework Quiz: 101, 103
- Other Ancillaries:** **Extra Examples Transparencies with Standardized Test Practice:** 209-211

5. Recognize and justify the relationship between the magnitude of a number and the application of specific operations.

- PE/TE:** 9-15, 449, 450-455, 456-461, 462, 463-469, 470-475, 511-512, 716-721
- Additional TE:** 1A, 1B, 1C, 1D, 446A, 446B, 446C, 446D, 500A, 500B, 500C, 500D, 706A, 706B, 706C, 706D
- TRP:** **Chapter Resource Books: Ch 1:** 23-36; **Ch 8:** 9-22; **Ch 9:** 22-33; **Ch 12:** 22-34
Practice Workbook with Examples: 154-156
Standardized Test Practice Workbook: 2, 56, 63, 87
Warm-Up Transparencies and Daily Homework Quiz: 3, 4, 60, 61, 68, 69, 95, 96
- Other Ancillaries:** **Extra Examples Transparencies with Standardized Test Practice:** 3-4, 120-122, 140-141, 195-196

6. Identify and use properties related to operations with matrices (addition, subtraction, and scalar multiplication) to solve applied problems.

- PE/TE:** 86-92, 97
- Additional TE:** 60A, 60B, 60C, 60C
- TRP:** **Chapter Resource Books: Ch 2:** 54-67
Practice Workbook with Examples: 31-35
Standardized Test Practice Workbook: 11
Warm-Up Transparencies and Daily Homework Quiz: 13, 14
- Other Ancillaries:** **Extra Examples Transparencies with Standardized Test Practice:** 25-27

D. Algebraic Expressions in Problem Solving Situations

1. Find specific function values and evaluate expressions.

PE/TE:	3-8, 10, 15, 16-21, 257-260, 274, 275, 458, 477-482, 483, 484-490, 519, 520, 711
Additional TE:	1A, 1B, 1C, 1D, 200A, 200B, 200C, 200D, 446A, 446B, 446D
TRP:	Chapter Resource Books: Ch 1: 23-52; Ch 4: 108-119; Ch 8: 66-80 Practice Workbook with Examples: 4-6, 91-93, 166-168 Standardized Test Practice Workbook: 2, 3, 31, 60 Warm-Up Transparencies and Daily Homework Quiz: 3, 4, 5, 35, 37, 64, 65
Other Ancillaries:	Extra Examples Transparencies with Standardized Test Practice: 3-7, 74-75, 132-133

2. Simplify polynomial expressions and perform polynomial arithmetic.

PE/TE:	102, 109, 575, 576-582, 584-589, 590-595, 683-689
Additional TE:	572A, 572B, 572C, 572D, 640A, 640B, 640C, 640D
TRP:	Chapter Resource Books: Ch 10: 9-36; Ch 11: 91-103 Algebra Tile Investigations: 36-46 Practice Workbook with Examples: 196-201, 238-240 Standardized Test Practice Workbook: 70, 71, 84 Warm-Up Transparencies and Daily Homework Quiz: 76-78, 91, 92
Other Ancillaries:	Extra Examples Transparencies with Standardized Test Practice: 154-158, 188-189

3. Transform and solve equations and inequalities, factoring as necessary in problem situations.

PE/TE:	131, 132-137, 138-144, 145-152, 153, 154-159, 160-165, 166-172, 173, 174-179, 180-186, 333-367, 505-506, 526-531, 532, 533-539, 606, 613, 620, 650-651, 730-736
Additional TE:	128A, 128B, 128C, 128D, 330A, 330B, 330C, 330D, 500A, 500B, 500C, 500D, 640A, 640B, 640C, 640D
TRP:	Chapter Resource Books: Ch 3: 9-119; Ch 6: 9-75; Ch 9: 9-21, 52-80; Ch 11: 21-34; Ch 12: 50-62 Algebra Tile Investigations: 11-25, 65, 66, 79, 89 Practice Workbook with Examples: 46-69, 115-135, 172-174, 181-186, 223-225, 253-255 Standardized Test Practice Workbook: 16-23, 39-43, 62, 65, 66, 79, 89 Warm-Up Transparencies and Daily Homework Quiz: 19-27, 45-50, 67, 68, 70-72, 91, 93, 97, 98
Other Ancillaries:	Extra Examples Transparencies with Standardized Test Practice: 37-56, 92-101, 137-139, 144-147, 176-178, 199-201

4. Given a problem situation, determine whether to use a rough estimate, an approximation, or an exact answer. Select a suitable method of computing from techniques such as the use of mental mathematics, paper-and-pencil combinations, calculators, and computers.

PE/TE: See, for example, 15, 18, 25, 101, 166-173, 209, 252, 318, 504, 506, 513, 591, 663
Additional TE: 128A, 128B, 128C, 128D
TRP: **Chapter Resource Books: Ch 3:** 78-93
Practice Workbook with Examples: 61-63
Standardized Test Practice Workbook: 21
Warm-Up Transparencies and Daily Homework Quiz: 24, 25
Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 49-50

5. Use supporting data to explain why a solution is mathematically reasonable.

PE/TE: See, for example, 24, 37 (Ex. 53), 156, 161, 162, 166-167, 210, 251, 361, 419, 604, 606
Additional TE: 128A, 128B, 128C, 128D
TRP: **Chapter Resource Books: Ch 3:** 78-93
Practice Workbook with Examples: 61-63
Standardized Test Practice Workbook: 21
Warm-Up Transparencies and Daily Homework Quiz: 24, 25
Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 49-50

6. Use the commutative, associative, and distributive properties to simplify algebraic expressions.

PE/TE: 100-106, 109, 112, 575-582, 584-589, 590-595, 683-689
Additional TE: 60A, 60B, 60D, 572A, 572B, 572C, 572D, 640A, 640B, 640C, 640D
TRP: **Chapter Resource Books: Ch 2:** 80-94; **Ch 10:** 9-51; **Ch 11:** 91-103
Algebra Tile Investigations: 1-10, 36-46
Practice Workbook with Examples: 37-39, 196-204, 238-240
Standardized Test Practice Workbook: 13, 70-72, 84
Warm-Up Transparencies and Daily Homework Quiz: 15, 16, 76-79, 91, 92
Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 30-32, 154-161, 188-189

II. Linear Functions

A. Representations

1. Determine whether or not given situations can be represented by linear functions.

PE/TE:	46-52, 56, 57, 257, 258, 259, 260, 261, 262, 266, 274-278, 295, 476, 554-559
Additional TE:	1A, 1B, 1C, 1D, 200A, 200B, 200C, 200D, 270A, 270B, 270C, 270D, 500A, 500B, 500C, 500D
TRP:	Chapter Resource Books: Ch 1: 93-106; Ch 4: 108-119; Ch 5: 9-20; Ch 9: 109-124 Practice Workbook with Examples: 19-21, 91-93, 94-96, 193-195 Standardized Test Practice Workbook: 7, 31, 32, 69 Warm-Up Transparencies and Daily Homework Quiz: 8, 10, 35, 37, 38, 74-76
Other Ancillaries:	Extra Examples Transparencies with Standardized Test Practice: 14-15, 76-78, 152-153

2. Determine the domain and range values for linear functions based on the constraints of the problem.

PE/TE:	46-50, 110, 112, 257-261
Additional TE:	1A, 1B, 1C, 1D, 200A, 200B, 200C, 200D
TRP:	Chapter Resource Books: Ch 1: 93-106; Ch 4: 108-119 Practice Workbook with Examples: 19-21, 91-93 Standardized Test Practice Workbook: 7, 31 Warm-Up Transparencies and Daily Homework Quiz: 8, 10, 35, 37
Other Ancillaries:	Extra Examples Transparencies with Standardized Test Practice: 14-15, 74-75

3. Translate among and use algebraic, tabular, graphical, or verbal descriptions of linear functions using computer algebra systems, spreadsheets, and graphing calculators.

PE/TE:	46-52, 56, 57, 80, 173, 257-261, 262, 266, 274-278, 295, 476, 554-559
Additional TE:	1A, 1B, 1C, 1D, 200A, 200B, 200C, 200D, 270A, 270B, 270C, 270D, 500A, 500B, 500C, 500D
TRP:	Chapter Resource Books: Ch 1: 93-106; Ch 4: 108-119; Ch 5: 9-20; Ch 9: 109-124 Practice Workbook with Examples: 19-21, 91-93, 94-96, 193-195 Standardized Test Practice Workbook: 7, 31, 32, 69 Warm-Up Transparencies and Daily Homework Quiz: 8, 10, 35, 37, 38, 74-76
Other Ancillaries:	Extra Examples Transparencies with Standardized Test Practice: 13-15, 74-78

B. Interpretations

1. Develop the concept of slope as rate of change and determine slope from graphs, tables, and algebraic representations.

PE/TE:	225, 226-233, 240, 241-247, 248, 273-278, 279-284, 285-291, 300-307
Additional TE:	200A, 200B, 200C, 200D, 270A, 270B, 270C, 270D
TRP:	Chapter Resource Books: Ch 4: 50-63, 76-94; Ch 5: 9-20, 21-33, 34-48, 63-76 Practice Workbook with Examples: 79-81, 85-87, 94-96, 97-99, 100-102, 106-108 Standardized Test Practice Workbook: 26, 27, 32, 33, 34, 36 Warm-Up Transparencies and Daily Homework Quiz: 31-34, 37-42
Other Ancillaries:	Extra Examples Transparencies with Standardized Test Practice: 65-66, 70-71, 76- 82, 86-87

2. Interpret the meaning of slope and intercepts in situations using data, symbolic representations, or graphs.

PE/TE: 220-224, 225, 226-234, 240, 241-246, 250-255, 273-278, 279-284, 285-291, 292-298
Additional TE: 200A, 200B, 200C, 200D, 270A, 270B, 270C, 270D
TRP: **Chapter Resource Books: Ch 4:** 36-49, 95-107; **Ch 5:** 9-20
Practice Workbook with Examples: 76-78, 88-90, 94-96
Standardized Test Practice Workbook: 26, 30, 32
Warm-Up Transparencies and Daily Homework Quiz: 30, 31, 34, 35, 37, 38
Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 63-64, 65-66, 70-73, 76-85

3. With and without using a graphing calculator, investigate, describe, and predict the effects of changes in m and b on the graph of $y = mx + b$.

PE/TE: 240, 241, 242, 244, 245, 248-249, 266, 267
Additional TE: 200A, 200B, 200C, 200D
TRP: **Chapter Resource Books: Ch 4:** 79
Practice Workbook with Examples: 85-87
Standardized Test Practice Workbook: 29
Warm-Up Transparencies and Daily Homework Quiz: 33, 34
Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 70-71

4. Graph and write equations of lines given characteristics such as two points, a point and a slope, or a slope and y-intercept.

PE/TE: 210-217, 218-224, 225, 226-233, 234-239, 240, 241-247, 248, 250-255, 256-262, 273-278, 279-284, 285-291, 292-298, 299, 300-306, 397, 308-314, 315, 316-322
Additional TE: 200A, 200B, 200C, 200D, 270A, 270B, 270C, 270D
TRP: **Chapter Resource Books: Ch 4:** 24-35; **Ch 5:** 9-105
Practice Workbook with Examples: 73-75, 94-114
Standardized Test Practice Workbook: 25, 32-38
Warm-Up Transparencies and Daily Homework Quiz: 29, 30, 37-43, 45
Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 60-75, 76-91

5. Determine the intercepts of linear functions from graphs, tables, and algebraic representations.

PE/TE: 218-223, 240, 241-247, 248, 250-255, 273-278
Additional TE: 200A, 200B, 200C, 200D, 270A, 270B, 270C, 270D
TRP: **Chapter Resource Books: Ch 4:** 36-49, 76-94, 95-107;
Ch 5: 10-20
Practice Workbook with Examples: 76-78, 85-90, 91-93, 94-96
Standardized Test Practice Workbook: 26, 29, 30, 32
Warm-Up Transparencies and Daily Homework Quiz: 31-35, 37, 38
Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 63-64, 69-73, 76-78

6. With and without using a graphing calculator, interpret and predict the effects of changing slope and y-intercept in applied situations.

PE/TE: 240, 243, 245, 246, 248-249, 267
Additional TE: 200A, 200B, 200C, 200D
TRP: **Chapter Resource Books: Ch 4:** 79, 84
Practice Workbook with Examples: 85-87
Standardized Test Practice Workbook: 29
Warm-Up Transparencies and Daily Homework Quiz: 33, 34
Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 70-71

7. Relate direct variation to linear functions and solve problems involving proportional change.

PE/TE: 234-239, 250-255, 265, 266, 267, 651-655
Additional TE: 200A, 200B, 200C, 200D, 640A, 640B, 640C, 640D
TRP: **Chapter Resource Books: Ch 4:** 64-75, 95-101; **Ch 11:** 21-34
Practice Workbook with Examples: 82-84, 88-90
Standardized Test Practice Workbook: 28, 30, 79
Warm-Up Transparencies and Daily Homework Quiz: 32-35, 86, 87
Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 67-69, 72-73, 176-178

C. Equations and Inequalities

1. Analyze situations involving linear functions and formulate linear equations or inequalities to solve problems.

PE/TE:	46-52, 131, 132-137, 138-144, 145-152, 153, 154-159, 160-165, 166-172, 173, 174-179, 180-186, 294-299, 317-322, 333-339, 340-345, 346-352, 353-359, 360-367, 554-559, 650-655
Additional TE:	1A, 1B, 1C, 1D, 128A, 128B, 128C, 128D, 270A, 270B, 270C, 270D, 330A, 330B, 330C, 330D, 500A, 500B, 500C, 500D, 640A, 640B, 640C, 640D
TRP:	Chapter Resource Books: Ch 1: 93-106; Ch 3: 9-119; Ch 5: 49-62, 92-105; Ch 6: 9-75; Ch 9: 109-124; Ch 11: 21-34 Algebra Tile Investigations: 11-25 Practice Workbook with Examples: 19-21, 46-49, 103-105, 112-129, 193-195, 223-225 Standardized Test Practice Workbook: 7, 16-23, 35, 38-43, 69, 79 Warm-Up Transparencies and Daily Homework Quiz: 8, 10, 19-27, 40, 41, 43, 45-50, 74, 76, 86, 87
Other Ancillaries:	Extra Examples Transparencies with Standardized Test Practice: 14-15, 37-56, 83-85, 90-101, 152-153, 176-178

2. Investigate methods for solving linear equations and inequalities using concrete models, graphs, and the properties of equality, select a method, and solve the equations and inequalities.

PE/TE:	131, 132-137, 138-144, 145-152, 153, 154-159, 160-165, 166-172, 173, 174-179, 180-186, 333-339, 340-345, 346-352, 353-359, 360-367, 650-655
Additional TE:	128A, 128B, 128C, 128D, 330A, 330B, 330C, 330D, 640A, 640B, 640C, 640D
TRP:	Chapter Resource Books: Ch 3: 9-119 Algebra Tile Investigations: 11-25 Practice Workbook with Examples: 46-49, 115-129, 223-225 Standardized Test Practice Workbook: 16-23, 39-43, 79 Warm-Up Transparencies and Daily Homework Quiz: 19-27, 45-50, 86, 87
Other Ancillaries:	Extra Examples Transparencies with Standardized Test Practice: 37-56, 92-101, 176-178

3. Use the commutative, associative, distributive, equality, and identity properties to justify the steps in solving equations and inequalities.

PE/TE: *Properties are initially taught and practiced through simplification of expressions on the following pages: Properties of Addition, 73; Properties of Multiplication, 94; The Distributive Property, 100; and Properties of Equality, 139. They are applied to solving equations and inequalities on the following pages: 104-105, 146, 155, 342, 758-763*

Additional TE: 706A, 706B, 706C, 706D

TRP: **Chapter Resource Books: Ch 12:** 120-133
Practice Workbook with Examples: 265-267
Standardized Test Practice Workbook: 93
Warm-Up Transparencies and Daily Homework Quiz: 101, 102

Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 209-211

4. Using concrete models for given contexts, interpret and determine the reasonableness of solutions to linear equations and inequalities.

PE/TE: Concrete models: 131, 153, 240, 249, 315, 392; reasonableness of solutions: for example 133, 134, 135 (Ex. 12), 156, 158 (Ex. 45), 161, 162, 168, 171 (Ex. 59), 342, 362, 364 (Ex. 65)

Additional TE: 128A, 128B, 128C, 128D, 200A, 200B, 200C, 200D, 270A, 270B, 270C, 270D

TRP: **Chapter Resource Books: Ch 3:** 12, 53; **Ch 4:** 79, 84; **Ch 5:** 95
Algebra Tile Investigations: 11-25

Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 37-38, 44-45, 70-71, 90-91

D. Systems of Linear Equations

1. Analyze situations and formulate systems of linear equations to solve problems.

PE/TE: 397, 398-403, 404, 405-410, 411-417, 418-424, 425, 426-431

Additional TE: 394A, 394B, 394C, 394D

TRP: **Chapter Resource Books: Ch 7:** 9-77
Practice Workbook with Examples: 136-150
Standardized Test Practice Workbook: 50-54
Warm-Up Transparencies and Daily Homework Quiz: 53-58

Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 108-117

2. Solve systems of linear equations using concrete models, graphs, tables, and algebraic methods including computer algebra systems, spreadsheets, and graphing calculators.

PE/TE: 397, 398-403, 404, 405-410, 411-417, 418-424, 425, 426-431

Additional TE: 394A, 394B, 394C, 394D

TRP: **Chapter Resource Books: Ch 7: 9-77**

Practice Workbook with Examples: 136-150

Standardized Test Practice Workbook: 50-57

Warm-Up Transparencies and Daily Homework Quiz: 53-58

Other Ancillaries: Extra Examples Transparencies with Standardized Test Practice: 108-117

3. For given contexts, interpret and determine the reasonableness of solutions to systems of linear equations.

PE/TE: 398-403, 404, 405-410, 411-412, 418-424, 425, 426-431

Additional TE: 394A, 394B, 394C, 394D

TRP: **Chapter Resource Books: Ch 7: 9-77**

Practice Workbook with Examples: 136-150

Standardized Test Practice Workbook: 50-54

Warm-Up Transparencies and Daily Homework Quiz: 53-58

Other Ancillaries: Extra Examples Transparencies with Standardized Test Practice: 108-117

III. Quadratic and Other Functions

A. Quadratic Functions

1. Determine the domain and range values for quadratic functions given the constraints of the problem.

PE/TE: 520-523
Additional TE: 500A, 500B, 500C, 500D
TRP: **Chapter Resource Books: Ch 9:** 34-51
Algebra Tile Investigations: 26-35
Practice Workbook with Examples: 178-180
Standardized Test Practice Workbook: 64
Warm-Up Transparencies and Daily Homework Quiz: 69, 70
Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 142-143

2. With and without using a graphing calculator, investigate, describe, and predict the effects of changes in the coefficient a on the graph of $y = ax^2$.

PE/TE: 517, 523 (Ex. 78)
Additional TE: 500A, 500B, 500C, 500D
TRP: **Chapter Resource Books: Ch 9:** 34-51
Practice Workbook with Examples: 178-180
Standardized Test Practice Workbook: 64
Warm-Up Transparencies and Daily Homework Quiz: 69, 70
Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 142-143

3. With and without using a graphing calculator, investigate, describe, and predict the effects of changes in the constant c on the graph of $y = x^2 + c$.

PE/TE: 517, 523 (Ex. 80)
Additional TE: 500A, 500B, 500C, 500D
TRP: **Chapter Resource Books: Ch 9:** 34-51
Practice Workbook with Examples: 178-180
Standardized Test Practice Workbook: 64
Warm-Up Transparencies and Daily Homework Quiz: 69, 70
Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 142-143

4. For problem situations, analyze graphs of quadratic functions and draw conclusions.

PE/TE: 520-523, 528-530
Additional TE: 500A, 500B, 500C, 500D
TRP: **Chapter Resource Books: Ch 9:** 34-66
Algebra Tile Investigations: 26-35
Practice Workbook with Examples: 178-183
Standardized Test Practice Workbook: 64, 65
Warm-Up Transparencies and Daily Homework Quiz: 69-71
Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 142-145

5. Solve quadratic equations using concrete models, tables, graphs, and algebraic methods that include factoring and using the quadratic formula, as well as computer algebra systems, spreadsheets, and graphing calculators.

PE/TE: 505-506, 526-539, 606, 613, 620, 730-736
Additional TE: 500A, 500B, 500C, 500D, 706A, 706B, 706C, 706D
TRP: **Chapter Resource Books: Ch 9:** 9-21, 52-80; **Ch 12:** 50-62
Practice Workbook with Examples: 172-174, 178-183, 253-255
Standardized Test Practice Workbook: 62-65, 89
Warm-Up Transparencies and Daily Homework Quiz: 67, 68, 70-73, 97, 98
Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 137-139, 144-147, 199-201

6. Relate the solutions of quadratic equations to the roots of their functions.

PE/TE: 526-532, 542, 599
Additional TE: 500A, 500B, 500C, 500D
TRP: **Chapter Resource Books: Ch 9:** 52-66
Practice Workbook with Examples: 181-183
Standardized Test Practice Workbook: 65
Warm-Up Transparencies and Daily Homework Quiz: 70, 71
Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 144-145

B. Other Functions

1. Use patterns to generate the laws of exponents and apply them in problem-solving situations.

PE/TE: 449, 450-455, 456-461, 462, 463-469, 470-475, 476, 477-482, 483, 484-491, 492

Additional TE: 446A, 446B, 446C, 446D

TRP: **Chapter Resource Books: Ch 8:** 9-98
Practice Workbook with Examples: 154-171
Standardized Test Practice Workbook: 56-61, 60-65, 67
Warm-Up Transparencies and Daily Homework Quiz: 60-65, 67

Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 120-136

2. Analyze data and represent situations involving inverse variation using concrete models, tables, graphs, or algebraic methods, as well as computer algebra systems, spreadsheets, and graphing calculators.

PE/TE: 656-662, 663

Additional TE: 640A, 640B, 640C, 640D

TRP: **Chapter Resource Books: Ch 11:** 38-51
Practice Workbook with Examples: 226-228
Standardized Test Practice Workbook: 80
Warm-Up Transparencies and Daily Homework Quiz: 87, 88

Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 179-181

3. Analyze data and represent situations involving exponential growth and decay using concrete models, tables, graphs, or algebraic methods, as well as computer algebra systems, spreadsheets, and graphing calculators.

PE/TE: 458, 462, 476, 477-482, 483, 484-491, 492, 554-560, 570-571

Additional TE: 446A, 446B, 446C, 446D, 500A, 500B, 500C, 500D

TRP: **Chapter Resource Books: Ch 8:** 66-98; **Ch 9:** 109-124
Practice Workbook with Examples: 166-171, 193-195
Warm-Up Transparencies and Daily Homework Quiz: 64, 65, 67, 74, 76

Other Ancillaries: **Extra Examples Transparencies with Standardized Test Practice:** 132-136, 152-153