

Prentice Hall Mathematics, Course 3 © 2008
Correlated to:
Arizona Academic Standards for Mathematics
(Grade 8)

ARIZONA MATHEMATICS STANDARD ARTICULATED BY GRADE LEVEL: GRADE 8	PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))
Strand 1: Number Sense and Operations	
Every student should understand and use all concepts and skills from the previous grade levels. The standards are designed so that new learning builds on preceding skills and are needed to learn new skills. Communication, Problem-solving, Reasoning & Proof, Connections, and Representation are the process standards that are embedded throughout the teaching and learning of mathematical strands.	
Concept 1: Number Sense	
Understand and apply numbers, ways of representing numbers, the relationships among numbers and different number systems.	
PO 1. Locate rational numbers on a number line	SE/TE: 10-13, 15, 16-19, 20, 44-45 (#49), 128, 214, 247, 281, 282-285, 287, 288-292, 297 (#1, 6), 438-441, 442, 449
	TE: Error Prevention 11, 128, 247, 283, 287, Additional Examples 183, 290, 439
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0102, ase-0103, ase-0605
PO 2. Identify irrational numbers	SE/TE: 10-13, 23-25, 44-45 (#25-28), 48-49, 50 (#5-8), 52-56, 57-60, 61, 62-65, 70, 71, 86-89, 91, 92-95, 97, 98-99, 100, 104 (#6-9), 104 (#13-15), 158 (#5-9), 164, 606-607
	TE: Error Prevention 25, 53, 63, 87; Differentiated Instruction 12, 44
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0153, ase-0102, ase-0202, ase-0208
PO 3. Classify real numbers as rational or irrational.	SE/TE: 102-110, 123 (#2-4), 152 (#9-13), 154 (#7-11)
	TE: Error Prevention 107

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Concept 2: Numerical Operations	
Understand and apply numerical operations and their relationship to one another.	
PO 1. Select the grade-level appropriate operation to solve word problems	SE/TE: xxxiv, xxxv, xxxvi, xxxvii, xxxviii, xxxix, xi, xii, 24-25, 47-49, 88-89 (# 31, 42, 37-40, 43-45), 102-103, 114-115 (#14, 15, 20, 21, 25-27), 156-157, 164, 199 (#2-15, 16, 21-23), 206-207, 234-238, 251, 279-280, 298-299, 508-509, 542-543 (#3, 4, 9, 11, 15, 16, 17), 584-585 (#14, 23, 24, 33, 38), 596-597
	TE: Differentiated Instruction 47; Error Prevention 235, 279
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0153, ase-0207, ase-0253, ase-0302, ase-0353, ase-0453, ase-0653, ase-1053, ase-1205
PO 2. Solve word problems using grade-level appropriate operations and numbers	SE/TE: 43, 78-79, 94-95 (#26, 31-35, 38-40), 108-110 (#32-34, 47, 51-63), 120-121 (#13, 14, 20, 22), 162-163 (#21-23, 28-38), 179-180, 201, 226-227 (#7, 8, 15), 240-241, , 256-257, 293, 350-351, 537-538 (#6-8, 16-18, 20-21), 537-538 (#6-8, 16-18, 20-21), 537-538 (#6-8, 16-18, 20-21)
	TE: Error Prevention 79, 179
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0301, ase-0303, ase-0401, ase-0504, ase-0553, ase-0753
PO 3. Determine the square of an integer	SE/TE: xxxix, 106-110, 111, 112-115, 116-117, 118-121, 122, 123
	TE: Error Prevention 107, 113, 116, 122, Additional Examples 107, 113

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	TECH: 87 in SE/TE and Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0301, ase-0302, ase-0303
PO 4. Determine the square root of an integer	SE/TE: 106-110, 112-115, 116-117, 118-121, 122, 125-127, 139 (#24), 153 (#14-17), 154 (#1-6, 17), 158 (#16-18)
	TE: Error Prevention 107, 116, 122
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0301, ase-0302, ase-0303
PO 5. Identify squaring and finding square roots as inverse operations	SE/TE: 106-110, 112-115, 116-117, 118-121, 122, 125-127, 139 (#24), 153 (#14-17), 154 (#1-6, 17), 158 (#16-18)
	TE: Error Prevention 107, 116, 122
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0301, ase-0302, ase-0303, ase-0306
PO 6. Apply grade-level appropriate properties to assist in computation	SE/TE: 4-8, 10-14, 15-25, 26-31, 47, 66-76, 80-90, 91-95, 102-110, 111-117, 118-122, 128, 160-164, 166-171, 172-180, 231-237, 258 (#12-17), 272-278, 300 (# 1-3), 333-334, 513-516, 560-569, 570-580, 581-586, 604-605 (#21-26, 42-45)
	TE: Differentiated Instruction 12; Error Prevention 82, 90, 116, 128, 179, 333, 513, 582

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	TECH: 90, 107, 167, 168, 230 in SE/TE & Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0101, ase-0102, ase-0105, ase-0205, ase-0301, ase-0302, ase-0401, ase-0402, ase-0505, ase-1101, ase-1204
PO 7. Apply the symbols " $\sqrt{\quad}$ " to represent square root, " \pm " to represent roots, and " $\{\}$ " as grouping symbols	SE/TE: 90, 106-110, 112-115, 116-117, 118-121, 122, 125-127, 139 (#24), 153 (#14-17), 154 (#13-17). 158 (#16-18)
	TE: Error Prevention 90, 107, 116, Additional Examples 107, 119, 125
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0301
PO 8. Use grade-level appropriate mathematical terminology	SE/TE: 9, 44, 47, 77, 98, 101, 152, 155, 202, 205, 228, 252, 255, 228, 286, 294, 297, 321, 346, 404, 407, 462, 465, 500, 504, 507, 510, 555
	TE: 44, 152, 202, 228, 286, 346, 404, 462, 504
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0704
PO 9. Calculate the missing value in a percentage problem	SE/TE: 210-213, 214-217, 218-222, 223, 224-228, 229, 230-233, 234-238, 239, 240-241, 242-244, 251, 252-253, 254, 255, 256-257
	TE: Error Prevention 215, 220, 229, 231, 235, 241

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	TECH: 63, 230, 45 in SE/TE & Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0501, ase-0502, ase-0504, ase-0505, ase-0507, ase-0553
PO 10. Convert standard notation to scientific notation, and vice versa	SE/TE: 91-95, 96, 98-99 (# 34-38), 100 (# 45-55), 115 (#28-30), 403 (#2), 447 (#17), 555 (#1, 7), 570 (#4-6), 572-574, 575, 580 (#4-6), 582-585 (Example 2 & #14, 23, 24, 33, 38), 596-597, 606-607 (#42-45, 55), 626-627 (#14-17, 33, 34, 36)
	TE: Technology Tips 93; Error Prevention 403, 572, 575, 582
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0208
PO 11. Simplify numerical expressions using the order of operations with grade-appropriate operations on number sets.	SE/TE: 4-8, 11. 15, 16-19, 21-23, 24-25, 26-31, 37, 43 46 (# 5-24), 48-49, 86-89, 99 (#31-33), 100 (#35-44), 104, 300 (#1-3), 374-378, 380-384, 385-386, 604-605 (#1-4, 9-26), 606-607 (#33-41)
	TE: Guided Instruction 15, 37, 87, 375
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0102, ase-0104, ase-0105, ase-0153

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Concept 3: Estimation	
Use estimation strategies reasonably and fluently.	
PO 1. Solve grade-level appropriate problems using estimation	SE/TE: 80, 107-110, 116-117, 167-168, 179-180, 192-195, 196-200, 214-217, 239, 251, 252-253 (#14-16), 254 (#8-12), 256-257 (#3), 299 (#3b), 334 (#5, 6), 335, 337-339, 370-372 (Example 3 & #14, 17), 376-378, 381-384, 385-386, 390-391 (#12, 21), 403, 593-595, 612-613, 623
	TE: Error Prevention 167, 196, 215, 335, 381, 382, 385, 403; Guided Instruction 107, 239, 381
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0406, ase-0406, ase-0407
PO 2. Use estimation to verify the reasonableness of a calculation (e.g., Is 32 the square root of 64?)	SE/TE: 24-25, 34-35, 68 (#29), 73-, 75 (#32), 78-79, 80, 107-110, 112-115, 116-117, 167-170, 172-173, 175, 179-180, 198-200, 220, 224-227 (#15, 22, 23), 240-241, 272, 279-280, 385-386, 394-397, 403, 544-545, 687-588
	TE: Error Prevention 73, 79, 107, 113
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0302, ase0407
PO 3. Express answers to the appropriate place or degree of precision (e.g., time, money)	SE/TE: 61, 80, 81-84, 104, 107-110, 112-115, 118-121, 127 (#35-38), 152-153 (#9-16), 167-171, 196-200, 205, 215-217, 225-228, 230-233, 234-239, 242-245, 253 (#23-30), 254, 250-257, 385-389, 402, 466-467
	TE: Error Prevention 167, 385, 402

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	TECH: 107, 167, 168, 198, 230 in SE/TE & Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0206, ase-0301, ase-0303, ase-0407, ase-0953, ase-0953, ase-0553
PO 4. Verify the reasonableness of estimates made from calculator results within a contextual situation.	SE/TE: 63, 64, 82-87, 90, 93, 107-110, 113-115, 119-121, 125-126 (Example 2 & #23, 24, 26, 27), 167-170, 175-178, 198-200, 218-222, 225-227, 230-233, 230-233, 337-339, 370-372, 376-378 (Example 2 & #2, 12-14, 18-24), 381-389, 446-453, 492-495, 51
	TE: Error Prevention 218, 225, 337, 370, 376, 381, 389, 492
	TECH: 63, 64, 85, 90, 107, 119, 167, 168, 175 in SE/TE & Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com
Strand 2: Data Analysis, Probability, and Discrete Mathematics	
Every student should understand and use all concepts and skills from the previous grade levels. The standards are designed so that new learning builds on preceding skills and are needed to learn new skills. Communication, Problem-solving, Reasoning & Proof, Connections, and Representation are the process standards that are embedded throughout the teaching and learning of mathematical strands.	
Concept 1: Data Analysis (Statistics)	
Understand and apply data collection, organization and representation to analyze and sort data.	
PO 1. Formulate questions to collect data in contextual situations	SE/TE: 379, 397, 417, 425 (#11-14), 427-432, 436 (#11-15), 440 -441, 443, 474-480, 481-485, 488, 508-509
	TE: Error Prevention 379, 474, 476, 481, Additional Examples 476

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PO 2. Construct box-and-whisker plots	SE/TE: 438-441, 442, 447 (# 1-6), 449 (#3), 464 (#13), 465 (#14)
	TE: 438
	TECH: 442 in SE/TE & Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0906, ase-0907
PO 3. Determine the appropriate type of graphical display for a given data set	SE/TE: 418-422, 423, 424-426, 427, 428-431, 432, 433-437, 438-441, 442, 443, 444-447, 448, 449, 450-453, 454-455, 456-457, 460, 461, 462-463, 464, 465, 466-467, 495 (#35-36)
	TE: Error Prevention 419, 427, 429, 434
	TECH: 425, 442, 460 in SE/TE & Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0903, ase-0904, ase-0905, ase-0906, ase-0907, ase-0908
PO 4. Interpret box-and-whisker plots, circle graphs, and scatter plots	SE/TE: 438-441, 442, 443, 444-449, 450-453, 454-455, 456-459, 462-463, 464, 551
	TE: Error Prevention 451, 454, 457

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	TECH: 442 in SE/TE & Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web ase-0907, ase-0908
PO 5. Answer questions based on box-and-whisker plots, circle graphs, and scatter plots	SE/TE: 438-441, 442, 443, 444-449, 450-453, 454-455, 456-459, 462-463, 464, 551
	TE: Error Prevention 451, 454, 457, Additional Examples 445, 451
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0906, ase-0907, ase-0908
PO 6. Solve problems in contextual situations using the mean, median, mode, and range of a given data set	SE/TE: 412-416, 417, 418-422, 434-437, 439-441, 462-463 (#5-7), 464 (#1-6), 465 (#1-3), 602, 620-621 (#1, 2, 7,15)
	TE: Error Prevention 419, 434
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0901, ase-0902, ase-0905
PO 7. Formulate reasonable predictions based on a given set of data	SE/TE: 245, 246-250, 256-257, 298-200, 323, 443 (#6, 7), 444-447, 474, 475-479, 485, 503 (#2), 508-509, 622-623 (#6-8, 29)
	TE: Error Prevention 247, 476

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	TECH: 460, 484, 492 in SE/TE and Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD- ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0508, ase- 1002, ase-0553, ase-1053
PO 8. Compare trends in data related to the same investigation	SE/TE: 443, 444-447, 448, 449 (#4), 453 (#16, 17), 454-455 (#4-6), 456-459, 460, 462-463, 465 (#5, 14), 480-483, 485, 508-509, 520 (#6-10), 522, 544-545, 547, 550, 555, 556-557, 596-597, 620-621
	TE: Error Prevention 454, 481, 485, 522, 544, Additional Examples 457, 481, 547, 567
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0907, ase-1053, ase-1153
PO 9. Solve contextual problems using scatter plots, box-and-whiskers plots, and double line graphs of continuous data	SE/TE: 427, 429-431, 432, 438-441, 442, 443, 444-447, 448, 449 (#3, 4), 453 (#16, 17), 454-455 (#4-7), 456-459, 460, 463 (#9, 12,), 464 (#13, 14), 465 (#14), 642
	TE: 451, 454, 457
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PO 10. Evaluate the effects of missing or incorrect data on the results of an investigation (e.g., Susie's teacher recorded a 39 instead of a 93 for her last quiz, what will happen to Susie's average?).	SE/TE: 412-416, 417, 427, 444-448
	TE: Error Prevention 451, 454, 457

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PO 11. Identify a line of best fit for a scatter plot	SE/TE: 445-447, 449 (#4), 453 (#17), 455 (#4-6), 460, 463 (#12), 465 (#5), 508-509, 621 (#20)
	TE: Error Prevention 427, Additional Examples 445
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0907, ase-1053
PO 12. Distinguish between causation and correlation.	SE/TE: 445-447, 448, 449 (#4), 453 (#16), 460, 463 (#12), 465 (#5), , 508-509, 520 (#6-10), 620-621 (#9-11, 20)
	TE: Additional Examples 445, Lesson Quiz 447
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com
Concept 2: Probability	
Understand and apply the basic concepts of probability.	
PO 1. Determine the probability that a specific event will occur in a 2-stage probability experiment	SE/TE: xxxvii, 245, 246-250, 470-473, 474, 475-478, 479, 480-483, 484, 485, 486-490, 491-495, 496-499, 500, 501-502, 503, 504-505, 506, 507, 508-509, 602, 622-623
	TE: Error Prevention 247, 492, 497, 501, Additional Examples 483

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	TECH: 63 in SE/TE and Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-1001, ase-1004, ase-1005, ase-1006
PO 2. Solve contextual situations using probability (e.g., If the probability of Michelle making a free throw is 0.25, what is the probability that she will make three free throws in a row?)	SE/TE: xxvii, 245, 246-250, 468 (#9-14), 470-473, 474, 475-478, 479, 484, 485, 486-490 504-505, 506, , 508-509, 602, 622-623
	TE: Error Prevention 247, 492, 497, 501
	TECH: 63 in SE/TE and Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-1001, ase-1004, ase-1005, ase-1006, ase-1053
PO 3. Predict the outcome of a grade-level appropriate probability experiment	SE/TE: 245, 246-250, 253 (#35), 255 (#12), 468 (#9-14), 470-473, 474, 475-478, 479, 484, 485, 490, 503, 506 (#1-13), 508-509, 602, 622-62
	TE: Additional Examples 247, Lesson Quiz 250
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0909, ase-1002, ase-1053
PO 4. Record the data from performing a grade-level appropriate probability experiment	SE/TE: 245, 474, 477-478, 479, 484, 485, 490, 503, 508-509, 602, 622-623
	TE: Error Prevention 476, Guided Instruction 479

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PO 5. Compare the outcome of an experiment to predictions made prior to performing the experiment	SE/TE: 245, 246, 248 (#1-5), 249-250, 474, 479, 484, 485, 490, 508-509, 602
	TE: Guided Instruction 245
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0508, ase-1050
PO 6. Distinguish between independent and dependent events	SE/TE: 245, 485, 486-490, 501-502 (#2-8), 505 (# 12, 13), 506, 508-509
	TE: Error Prevention 485, 501, Additional Examples 487
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-1004, ase-1053
PO 7. Compare the results of two repetitions of the same grade-level appropriate probability experiment.	SE/TE: 245, 470-473, 474, 479, 484, 485, 490, 504, 508-509
	TE: Error Prevention 485, 501

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Concept 3: Discrete Mathematics – Systematic Listing and Counting	
Understand and demonstrate the systematic listing and counting of possible outcomes.	
PO 1. Determine all possible outcomes involving the combination of two or more sets of objects (e.g., If you roll a six-sided number cube 4 times, how many possible outcomes are possible?)	SE/TE: 491-495, 496-499, 500, 501-502, 505(#14, 15), 506 (#25-28), 507, 622-623 (#17-25, 34, 36)
	TE: 492, 497, 501
	TECH: 492 in SE/TE and Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com
PO 2. Determine all possible arrangements given a set (e.g., How many ways can you arrange a set of 7 books on a shelf?).	SE/TE: 491-495, 496-499, 500, 501-502, 505(#14, 15), 506 (#25-28), 507, 622-623 (#17-25, 34, 36)
	TE: 493, 501
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-494, ase-498

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Concept 4: Vertex-Edge Graphs	
Understand and apply vertex-edge graphs.	
PO 1. Solve contextual problems represented by vertex-edge graphs.	SE/TE: 496 (#31)
Strand 3: Patterns, Algebra, and Functions	
Every student should understand and use all concepts and skills from the previous grade levels. The standards are designed so that new learning builds on preceding skills and are needed to learn new skills. Communication, Problem-solving, Reasoning & Proof, Connections, and Representation are the process standards that are embedded throughout the teaching and learning of mathematical strands.	
Concept 1: Patterns	
Identify patterns and apply pattern recognition to reason mathematically.	
PO 1. Communicate a grade-level appropriate iterative or recursive pattern, using symbols or numbers	SE/TE: 512-516, 517, 522 (Checkpoint # 1-3), 526 (#24, 25), 552 (#6-12), 554 (#1-4), 570, 574 (#46), 585, 588 (# 2), 593-595, 624-625
	TE: Error Prevention 513, 588, Additional Examples 513, 514
	TECH: 515, 575 in SE/TE and Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-1101
PO 2. Extend a grade-level appropriate iterative or recursive pattern	SE/TE: 512-516, 517, 522 (Checkpoint # 1-3), 526 (#24, 25), 552 (#6-12), 554 (#1-4), 570, 574 (#46), 585, 588 (# 2), 593-595, 624-625
	TE: Error Prevention 513, 588, Math Background 512, Lesson Quiz 516
	TECH: 515, 575 in SE/TE and Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-1101
PO 3. Solve grade-level appropriate iterative or recursive pattern problems.	SE/TE: 512-516, 517, 522 (Checkpoint # 1-3), 526 (#24, 25), 552 (#6-12), 554 (#1-4), 570, 574 (#46), 585, 588 (# 2), 593-595, 624-625
	TE: Error Prevention 513, 588, Lesson Quiz 516

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	TECH: 515, 575 in SE/TE and Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-1101
Concept 2: Functions and Relationships	
Describe and model functions and their relationships.	
PO 1. Describe the rule used in a simple grade-level appropriate function (e.g., T-chart, input/output model)	SE/TE: 129, 130-135, 151, 153 (#24-27), 156-157, 523-526, 527, 528-531, 532, 533, 534-538, 539, 540-543, 544-545, 546-549, 550, 551, 552-553, 554, 555, 556-557, 624-625
	TE: Error Prevention 524, 527, Guided Instruction 151, Additional Examples 524, 529, 535, 541, 547
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0305, ase-0353, ase-1103, ase-1104, ase-1105, ase-1106, ase-1107, ase-1153
PO 2. Distinguish between linear and nonlinear functions, given graphic examples	SE/TE: 130-135, 151, 153 (#24-27), 154 (#27, 28, 18-29), 544-545, 546-549, 550, 552-553 (#18-29), 554-556, 624-625
	TE: Error Prevention 135, 544, 550, Additional Examples 547
	TECH: 533 in SE/TE and Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0305, ase-1107
PO 3. Determine whether a graph or table is related to a given equation of the form $y=ax^2$ where 'a' is a natural number	SE/TE: 546-549, 550, 554 (#5-25), 556-557
	TE: Guide Instruction 550, Additional Examples 547, Lesson Quiz 549

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PO 4. Identify independent and dependent variables for a contextual situation.	SE/TE: 85, 129, 130-135, 151, 154 (# 27, 28), 526-527, 550, 554 (#8, 18, 25), 556-557, 625
	TE: Additional Exercises 131-132
	TECH: 533 in SE/TE and Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-1103, ase-1153
Concept 3: Algebraic Representations	
Represent and analyze mathematical situations and structures using algebraic representations.	
PO 1. Evaluate algebraic expressions by substituting rational values for variables [e.g., $2(ab+ac+bc)$, when $a = 2$, $b = 3/5$, and $c = 4$]	SE/TE: 5-7, 11-12 (Example 4 & #15-18), 14 (#9-12), 21-23, 44 (#9-11), 46 (#12-17), 87-88 (Example 5 & #33-40), 90, 100 (#41-44), 104, 258 (#9-11), 265-269, 298-299, 300 (#1-3), 513-515, 524-526 (Example 2, # 5-20), 552 (#10-12), 562-564 (Example 3 & # 14-18)
	TE: Error Prevention 11, 21, 87, 90, 265, 513, 524, 562
	TECH: 90 in SE/TE and Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-1103
PO 2. Use variables in contextual situations	SE/TE: 6-8, 28-30, 34-36, 39-41 (#30-34), 80-84, 87-89, 113, 121, 151, 198-201, 261-263, 257-269, 275, 277-280, 298-299, 345, 524-526, 562 (Example 3 & #14-18, 26-30), 567 (Example 2 & #14, 19, 25), 577 (Example 2 & #22)
	TE: Error Prevention 34, 82, 87, 198, 262, 524

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	TECH: 85, 90, 460, 517 in SE/TE and Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0101, ase-0106, ase-0107, ase-0206, ase-0303, ase-0601, ase-0602, ase-0653, ase-1103
PO 3. Translate a written sentence or phrase into an algebraic equation or expression, and vice versa (e.g., Three less than twice a number is $2n-3$.)	SE/TE: 4-8, 14, 33-36, 38-41, 80, 86-91, 97, 101 (#2, 10, 13, 14), 151, 261-264, 265, 266-269, 272-275 (Example 2, # 21), 277-278 (Example 2, # 21), 279-280 (Example 2 & #17-19, 30), , 298-299, 540-545, 546-551, 556-557, 560, 567-568 (Example 2 & #19), 587-588
	TE: Error Prevention 34, 82, 87, 198, 262, 524
	TECH: 85, 90 in SE/TE and Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0102 ase-0106, ase-0107, ase-0207, ase-0601, ase-0603, ase-0653, ase-0604, ase-1106
PO 4. Translate a sentence written in context into an algebraic equation involving two operations	SE/TE: 38-41, 80, 86-91, 97, 101 (#2, 10, 13, 14), 151, 261-264, 265, 266-269, 272-275 (Example 2, # 21), 277-278 (Example 2, # 21), 279-280 (Example 2 & #17-19, 30), , 298-299, 540-545, 546-551, 556-557, 560, 567-568 (Example 2 & #19), 587-588
	TE: Error Prevention 34, 82, 87, 198, 262, 524
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PO 5. Translate a contextual situation into an algebraic inequality (e.g., Joe earns more than \$5.00 an hour, therefore, $x > 5$)	SE/TE: 283-285 (Example 2 & #21-61), 287 (#9-10), 289-292 (Example 1 & #11, 12, 22, 31), 296 (#28-30), 297, 298-299, 407 (#5), 600, 614 (#28-41, 48)
	TE: Error Prevention 283, 287, 289
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0605, ase-0606, ase-0653
PO 6. Identify an equation or inequality that represents a contextual situation	SE/TE: 283-285 (#Example 2 & 21-61), 287 (#9-10), 289-292 (Example 1 & #11, 12, 22, 31), 296 (#28-30), 297, 298-299, 600, 614 (#28-41, 48)
	TE: Error Prevention 283, 287, 289
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0605, ase-0606, ase-0653
PO 7. Solve one-step equations with rational numbers as coefficients or as solutions	SE/TE: 32, 33-36, 38-41, 42, 45 (#33-38), 80-84, 101, 276-278, 279-280, 298-299, 614-615 (#1-9), 614-615
	TE: Error Prevention 34, 39, 279
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0107, ase-0206, ase-0604, ase-0653
PO 8. Solve one-step equations that model contextual situations	SE/TE: 33, 34-36 (Example 2 & # 29, 41), 40 (#31), 42, 80-84, 101 (#13, 14), 276-278, 279-280, 298-299, 614-615 (#1-9)
	TE: Error Prevention 34, 39, 279

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PO 9. Solve two-step equations with rational coefficients and integer solutions (e.g., $3x + 5 = 11$, $4x - 20 = 8$)	SE/TE: 80-84, 97, 260-265, 271-275, 276-280, 294-295 (#6-20), 296 (#7-18), 298-299, 546-550, 556-557, 587-589, 614-615
	TE: Error Prevention 82, 265, 279, 550, 588
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0206, ase-0505, ase-0603, ase-0604, ase-0605, ase-0606
PO 10. Graph an inequality on a number line	SE/TE: 281, 282-285, 287, 288-292, 295 (#22-32), 296 (# 32-40), 297 (#1, 6)
	TE: Error Prevention 281, 283, 287, 289
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0605, ase-0606
PO 11. Solve a simple algebraic proportion	SE/TE: 160-164, 172-178, 179-184, 192-196, 197-200, 201, 218-222, 246, 253, 397, 451-452, 480, 500, 599, 610-611
	TE: Error Prevention 161, 172, 176, 182, 196, 198, 220, 451

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	TECH: 175, 218, 225 in SE/TE & Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0401, ase-0403, ase-0404, ase-0406, ase-0407, ase-0503
PO 12. Solve applied problems using the Pythagorean theorem.	SE/TE: 112-115, 116-117, 118-121, 122-123, 125-127, 139 (#24), 153 (#13-17), 154 (#13-17), 158 (#16-18), 599, 610-611
	TE: Error Prevention 113, 116, 122
	TECH: 113, 119, 125 in SE/TE and Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0302, ase-0303, ase-0306
Concept 4: Analysis of Change	
Analyze change in a variable over time and in various contexts.	
PO 1. Identify the slope of a line as the rate of change (the ratio of rise over run).	SE/TE: 156-157, 527, 528-533, 534-538, 540-545, 553
	TE: Error Prevention 527, 529, 536, 544, 550, 551
	TECH: 533 in SE/TE and Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-1104, ase-1105, ase-1106

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Strand 4: Geometry and Measurement	
Every student should understand and use all concepts and skills from the previous grade levels. The standards are designed so that new learning builds on preceding skills and are needed to learn new skills. Communication, Problem-solving, Reasoning & Proof, Connections, and Representation are the process standards that are embedded throughout the teaching and learning of mathematical strands.	
Concept 1: Geometric Properties	
Analyze the attributes and properties of 2-and 3-dimensional shapes and develop mathematical arguments about their relationships.	
PO 1. Draw a model that demonstrates basic geometric relationships such as parallelism, perpendicularity, similarity/proportionality, and congruence	SE/TE: 307-310, 311, 312-317, 318-322, 324-327, 341-344
	TE: Error Prevention 311, 325
	TECH: 191, 344 in SE/TE and Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0702, ase-0703, ase-0704, ase-0705, ase-0708
PO 2. Draw 3-dimensional figures by applying properties of each (e.g., parallelism, perpendicularity, congruency)	SE/TE: 307-310, 311, 312-317, 318-322, 324-327, 341-344
	TE: Error Prevention 311, 313, 344
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0702, ase-0703, ase-0704, ase-0705, ase-0708
PO 3. Recognize the 3-dimensional figure represented by a net	SE/TE: 363-366, 368, 370, 371, 376, 387, 404, 408-409, 461, 579 (#34)
	TE: Additional Examples 365

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PO 4. Represent the surface area of rectangular prisms and cylinders as the area of their net	SE/TE: 358-367, 368-373, 374-378, 385-386, 392, 397, 398-401, 403 (#1), 404-405 (#15-20, 22-24), 406 (#15-18, 23-28), 461, 601, 618-619
	TE: Error Prevention 359, 369, 375, 385
	TECH: 370, 376 in SE/TE & Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0804, ase-0805, ase-0809
PO 5. Draw regular polygons with appropriate labels.	SE/TE: 312-317, 318-321, 322, 323, 324-327, 328-332, 347-348
	TE: 314, 319, 325
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0703, ase-0704, ase-0705, ase-0706
PO 6. Identify the properties of angles created by a transversal intersecting two parallel lines (e.g., corresponding angles are congruent)	SE/TE: 302, 305-306, 307-311, 317 (#1-6), 342-343, 346 (#7), 348 (#1-6)
	TE: Error Prevention 302, 311
	TECH: 344 in SE/TE and Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0701, ase-0702

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PO 7. Recognize the relationship between inscribed angles and intercepted arcs	SE/TE: 340
	TE: Error Prevention 340
PO 8. Identify tangents and secants of a circle	SE/TE: 336, 340
	TE: Error Prevention 340
PO 9. Determine whether three given lengths can form a triangle	SE/TE: 122
	TE: Error Prevention 122
PO 10. Identify corresponding angles of similar polygons as congruent and sides as proportional.	SE/TE: 181-184, 185, 186, 187-190, 196-200, 203 (#25-28), 610-611
	TE: Error Prevention 182, 188, 196
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0404, ase-0405, ase-0407
Concept 2: Transformation of Shapes	
Apply spatial reasoning to create transformations and use symmetry to analyze mathematical situations.	
PO 1. Identify the planar geometric figure that is the result of a given rigid transformation	SE/TE: 136-139, 140, 141-144, 145, 146-149, 150, 152-153 (#28-30), 154 (#35-37), 187-190, 191, 202-203 (#28), 204 (#33), 345 (#2), 608-609 (#25-27, 34,-37), 610-611 (#16, 17,)
	TE: 137, 140, 145
	TECH: 191 in SE/TE & Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0306, ase-0307, ase-0308, ase-0405
PO 2. Model a simple transformation on a coordinate grid (e.g., Translate right four units and down two units.).	SE/TE: 136-139, 140, 142, 144 (#22, 29), 147-149, 152-153 (#28-30), 154 (#35-37), 188-190, 191, 204 (#33), 345 (#2), 608-609 (#25-27, 34,-37), 610-611 (#16, 17
	TE: Error Prevention 137, 140, 147

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	TECH: 191 in SE/TE and Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0306, ase-0308, ase-0405
Concept 3: Coordinate Geometry	
Specify and describe spatial relationships using coordinate geometry and other representational systems.	
PO 1. Use a table of values to graph a linear equation	SE/TE: 523-526, 527, 528-531, 533, 534-538, 539, 540-543, 545 (#5), 550, 551, 553 (#24, 25), 554 (#24, 28), 624-625
	TE: Error Prevention 527, 529, 550
	TECH: 533 in SE/TE and Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-1103, ase-1104, ase-1105, ase-1106
PO 2. Determine the midpoint given two points on a number line	SE/TE: 128, 344
	TE: Error Prevention 128, 344
PO 3. Determine the distance between two points on a number line.	SE/TE: 10, 15
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0775
Concept 4: Measurement -Units of Measure -Geometric Objects	
Understand and apply appropriate units of measure, measurement techniques, and formulas to determine measurements.	
PO 1. Solve problems for the area of a trapezoid	SE/TE: 81-84, 91 (#10), 101 (#14), 329, 331, 347, 352
	TE: Error Prevention 82, 329

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PO 2. Solve problems involving the volume of rectangular prisms and cylinders	SE/TE: xxxviii, 383-384, 387, 388-392, 397, 398-401, 403 (Example & # 3), 404-405 (#15-20, 22-24), 406 (#15-28), 408-409, 466-467
	TE: Error Prevention 397, 403
	TECH: 381 in SE/TE & Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0206, ase-0806, ase-0807, ase-0809, ase-0953
PO 3. Calculate the surface area of rectangular prisms or cylinders	SE/TE: 358-367, 368-373, 374-378, 385-386, 392, 397, 398-401, 403 (#1), 404-405 (#15-20, 22-24), 406 (#15-18, 23-28), 461, 601, 618-619
	TE: Error Prevention 359, 369, 375, 385, 403
	TECH: 370 in SE/TE & Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0804, ase-0805, ase-0809
PO 4. Identify rectangular prisms and cylinders having the same volume	SE/TE: 358-367, 368-373, 374-378, 383-387, 388-392, 397, 398-401, 403, 404-405 (#15-20, 22-24), 406 (#15-18, 23-28), 408-409, 461, 466-467, 601, 618-619
	TE: Error Prevention 359, 369, 375

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	TECH: 370, 381, 389 in SE/TE & Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0802, ase-0803, ase-0804, ase-0806, ase-0807, ase-0853
PO 5. Find the measure of a missing interior angle in a triangle or quadrilateral	SE/TE: 323, 324-327, 347 (#13-16), 348 (#23-25)
	TE: Error Prevention 325
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0705
PO 6. Solve problems using ratios and proportions, given the scale factor	SE/TE: 187-191, 192-196, 197-200, 201, 203 (#29-35, 610-611 (#16-31))
	TE: Error Prevention 188, 196, 198
	TECH: 175, 218, 225 in SE/TE & Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0405, ase-0406, ase-0407
PO 7. Calculate the length of a side, given two similar triangles.	SE/TE: 181-184, 185, 186, 187-190, 196-200, 203 (#25-28), 610-611
	TE: Error Prevention 188, 196
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0404, ase-0407

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Strand 5: Structure and Logic	
Every student should understand and use all concepts and skills from the previous grade levels. The standards are designed so that new learning builds on preceding skills and are needed to learn new skills. Communication, Problem-solving, Reasoning & Proof, Connections, and Representation are the process standards that are embedded throughout the teaching and learning of mathematical strands.	
Concept 1: Algorithms and Algorithmic Thinking	
Use reasoning to solve mathematical problems in contextual situations.	
PO 1. Describe how to use a proportion to solve a problem in context	SE/TE: 172-173, 175-178, 179-180, 192-196, 197-200, 201, 218-222, 246, 253, 397, 398-401, 451-452, 480, 500, 599, 610-611
	TE: Error Prevention 172, 176, 179, 191, 198, 220, 451
	TECH: 175, 218, 225 in SE/TE & Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0403, ase-0406, ase-0407, ase-0809
PO 2. Analyze algorithms.	SE/TE: 16-23, 24-25, 61, 72-76, 81-85, 92-95, 106-110, 111-117, 242-244, 491-495, 406-499, 501-503
	TE: Error Prevention 25, 73, 82, 107
	TECH: 63, 107, 167 in SE/TE & Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0103, ase-0205, ase-0208, ase-0301, ase-0302, ase-0507, ase-1005, ase-1006
Concept 2: Logic, Reasoning, Arguments, and Mathematical Proof	
Evaluate situations, select problem-solving strategies, draw logical conclusions, develop and describe solutions and recognize their applications.	
PO 1. Solve a logic problem given the necessary information	SE/TE: 39, 131-132, 156-157, 176, 206-207, 225, 256-257, 298-299, 330, 350-351, 397-401, 402, 408-409, 434, 491-500, 571-574, 581-585
	TE: T46-T55

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PO 2. Identify simple valid arguments using if...then statements (e.g., All squares are rectangles. If quadrilateral ABCD is a rectangle, is it a square?)	SE/TE: 307-311, 312-317, 318-321, 322, 323, 324
	TE: Additional Examples 308, lesson Quiz 310
	TECH: Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0702, ase-0703, ase-0704
PO 3. Model a contextual situation using a flow chart	SE/TE: xl, 48-49, 319, 322;
PO 4. Verify the Pythagorean theorem using an area dissection argument.	SE/TE: 112-115, 117 (#3, 6), 118-123, 122-123, 125-127, 139 (#24), 153 (#14-17), 154 (#13-17), 158 (#16-18), 350-351
	TE: Error Prevention 113, 122
	TECH: 113, 119 in SE/TE & Transparencies: Check Skills You'll Need, Additional Examples, Problem of the Day, Classroom Aid, Student Edition Answers, Lesson Quiz, Test-Taking Strategies; Interactive Textbook Online, StudentExpress CD-ROM, Success Tracker, Teacher Express CD-ROM, PresentationExpress CD-ROM, ExamView, MindPoint Quiz Show CD-ROM, www.PHSchool.com web code: ase-0302, ase-0303, ase-0306, ase-0753