



Algebra 2

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STANDARDS		PAGE REFERENCES
GRADE 9		
Standard 1: Number and Operation		
Students in Grade 9 deepen their understanding of real numbers by applying properties of rational numbers and exponents and by identifying exact and approximate roots without simplification. Students use positive and negative numbers, absolute value, fractions, decimals, percentages, and scientific notation. Students use the proper order of operations and perform operations with rational numbers. Students apply number sense to everyday situations and judge reasonableness of answers.		
Goal 1.1: Understand and use numbers.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.1.1.1	Apply properties of rational numbers. (347.01.b)	Student Edition: 11-18, 32 #64-#67, 46 #69-#70 Teacher Wraparound Edition: ICE 225, 247, 601; TNT 228
9.M.1.1.2	Use positive and negative numbers, absolute value, fractions, decimals, percentages, and scientific notation, including application in real world situations. (347.01.a)	Student Edition: 225 ex 6, 226 #13-#17, 227 #50-#55, 601 ex 3, 602 #10-#12, 603 #40-#47 Teacher Wraparound Edition: A 18; CC 13; DI 14, 18; ICE 13; RT 12; TT 12

STANDARDS		PAGE REFERENCES
9.M.1.1.3	Apply properties of exponents. (347.01.c)	Student Edition: 222-228, 232 #58-#61, 238 #3-#5, 276 ex 1, 277 #11-#14, 281 #4 Teacher Wraparound Edition: A 228; CC 224; DI 223; ICE 222, 223, 224
9.M.1.1.4	Identify exact and approximate roots without simplification.	Student Edition: 246 ex 1, 247 ex 3, 248 #4-#6, 249 #65, 256 #59-#61, 294-299, 301-302, 306-312, 313-319 Teacher Wraparound Edition: A 249, 299, 319; ICE 246, 247, 295, 296
9.M.1.1.5	Solve problems using number theory concepts (factors, multiples, primes). (347.01.d)	Student Edition: 239 ex 1, 242-243 #15-#44, 365-370, 460 #55-#60, 619 ex 2, 643 #56-#58 Teacher Wraparound Edition: BPK 239; DI 367; H 239; ICE 367
9.M.1.1.6	Use appropriate vocabulary.	Student Edition: 14 #1, 30 #1, 47 #1-#10, 71 #21, 100 #1-#8, 105 #1-#3, 145 #1-#10, 149 #1-#3, 209 #1-#10, 215 #1-#3, 276 #1-#10, 281 #1-#3, 336 #1-#8, 341 #1-#2 Teacher Wraparound Edition: A 80, 93
Goal 1.2: Perform computations accurately.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.1.2.1	Use the order of operations and perform operations with rational numbers. (347.02.a)	Student Edition: 6-10, 18 #78-#81, 27 #81-#82, 46 #73-#75, 48 #11-#17, 51 #4-#6 <i>Graphing Calculator Investigation 7</i> Teacher Wraparound Edition: A 10; DI 8; GCI 7; ICE 7
Goal 1.3: Estimate and judge reasonableness of results.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.1.3.1	Apply number sense to everyday situations and judge reasonableness of results. (347.03.a)	Student Edition: 56, 85 #13-#14, 164 #13, 166 #58, 286, 386 ex 5, 485, 539-540, 638, 762 <i>Graphing Calculator Investigation 300, 359</i>
9.M.1.3.2	Identify that error accumulates in a computation when there is rounding. (349.05.b)	Student Edition: 735 ex 3

STANDARDS		PAGE REFERENCES
Standard 2: Concepts and Principles of Measurement		
Students in Grade 9 formulate and use proportions, ratios, and scaling. Students apply concepts of rates and direct and indirect measurements. Students evaluate given measurement formulas for two- and three- dimensional objects.		
Goal 2.1: Understand and use U.S. customary and metric measurements.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.2.1.1	Given the formulas, find the circumference, perimeter, or area of triangles, circles, and quadrilaterals, and the volume and surface area of rectangular prisms and cylinders. (349.01.a)	Student Edition: 9 #50, 132 #73, 185 ex 4, 186 #14, 187 #49, 231 #15, 255 #49, 281 #32, 334 #45, 382 #55, 415 #36, 482 #13, 592 #58, 710
9.M.2.1.2	Solve problems involving circumference, perimeter, or area of triangles, circles, and rectangles.	Student Edition: 9 #50, 132 #73, 185 ex 4, 186 #14, 187 #49, 231 #15, 255 #49, 281 #32, 334 #45, 382 #55, 415 #36, 482 #13, 592
Goal 2.2: Apply the concepts of rates, ratios, and proportions.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.2.2.1	Use rates, ratios, proportions, and map scales in problem-solving situations. (349.03.a)	Student Edition: 181 #59-#64, 390, 490 #63-#66, 493-497, 507-508 ex 4 Teacher Wraparound Edition: A 498; ICE 493, 494
9.M.2.2.2	Apply concepts of rates and direct and indirect measurements.	Student Edition: 705 ex 6, 706 #13, 707 #42, 708 #46 Teacher Wraparound Edition: ICE 705
9.M.2.2.3	Construct equivalent units, comparable units, and conversions. (349.02.a)	Student Edition: 390, 393 #12-#13, 394 #42-#43 Teacher Wraparound Edition: H 390
Goal 2.3: Apply dimensional analysis.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.2.3.1	Use customary and metric units and their relationship to one another and to real world applications involving length, area, capacity, weight, time, and temperature. (349.04.a)	Student Edition: 292 #5, 390, 393 #12-#13, 494-495 ex 4, 496 #38-#39, 510 #34-#36, 511 #37 Teacher Wraparound Edition: ICE 494

STANDARDS		PAGE REFERENCES
Goal 2.4: Apply appropriate techniques and tools to determine measurements.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.2.4.1	Determine and use appropriate units. (349.01.a)	Student Edition: 292 #5, 390, 393 #12-#13, 494-495 ex 4, 496 #38-#39, 510 #34-#36, 511 #37 Teacher Wraparound Edition: ICE 494
9.M.2.4.2	Approximate error in measurement situations.	Student Edition: 738 #38-#40 <i>Key Concept</i> 682 <i>Study Tip</i> 704 Teacher Wraparound Edition: H 682; ICE 683
Standard 3: Concepts and Language of Algebra and Functions		
Students in Grade 9 use appropriate procedures for manipulating and simplifying algebraic expressions involving variables, integers, rational numbers, and for solving multi-step, first-degree equations and inequalities. Students understand the concept and applications of functions and mathematical models. Given graphs, charts, ordered pairs, mappings, or equations, students determine whether a relation is a function. Students evaluate functions written in functional notation and, given a function, students identify domain and range.		
Goal 3.1: Use algebraic symbolism as a tool to represent mathematical relationships.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.3.1.1	Represent mathematical relationships using variables, expressions, linear equations and inequalities. (350.01.a)	Student Edition: 8 ex 4, 20 ex 1-ex 2, 22 ex 6, 24 #19-#26, 25 #27-#34, 36 ex 4, 38 #47, 138, 140-141 ex 4, 348 ex 3 Teacher Wraparound Edition: ICE 8, 21, 22, 36, 141, 348
Goal 3.2: Evaluate algebraic expressions.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.3.2.1	Use appropriate procedures for manipulating and simplifying algebraic expressions involving variables, integers, and rational numbers. (350.02.a)	Student Edition: 7 ex 2, 14 ex 5, 15 #28-#35, 16 #49-#50, 18 #10, 24 #8-#9, 27 #88-#89, 48 #22-#24, 50 #13-#18 <i>Extra Practice Lesson</i> 1-3 828

STANDARDS		PAGE REFERENCES
Goal 3.3: Solve algebraic equations and inequalities.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.3.3.1	Use appropriate procedures to solve multi-step, first-degree equations and inequalities; such as $3(2x - 5) = 5x + 7$ or $3(2x - 5) > 5x + 7$. (350.03.a)	Student Edition: 20-27, 32 #61-#63, 33-39, 46 #61-#63, 49 #23-#33, 50 #40-#45, 51 #19-#24 Teacher Wraparound Edition: DI 22, 35; ICE 21, 22, 23, 34, 35, 64, 65
9.M.3.3.2	Differentiate between linear and non-linear equations and graphs.	Student Edition: 58-59 ex 3-ex 4
Goal 3.4: Solve simple linear systems of equations.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.3.4.1	Use appropriate procedures to solve linear systems of equations involving two variables; such as $x + y = 7$ and $2x + 3y = 21$. (350.04.a)	Student Edition: 110-115, 116-122, 127 #42-#47, 135 #48-#50, 145 #11-#14, 146 #15-#20, 149 #4-#9 Teacher Wraparound Edition: A 115, 122; CC 118; DI 119; ICE 111, 112, 116, 117
Goal 3.5: Understand the concept of functions.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.3.5.1	Given graphs, charts, ordered pairs, mappings, or equations, determine whether a relation is a function.	Student Edition: 58 ex 2, 60 #4-#6, 61 #23-#34, 101 #9-#12, 105 #4-#5, 107 #20 Teacher Wraparound Edition: DI 58; ICE 59; TT 57
9.M.3.5.2	Evaluate functions written in functional notation.	Student Edition: 59 ex 5, 60 #11-#12, 61 #46-#51, 74 #61-#64, 101 #13-#16, 105 #6-#7 Teacher Wraparound Edition: A 62; DI 60; ICE 59
9.M.3.5.3	Given a function, identify domain and range.	Student Edition: 57 ex 1, 58 ex 3, 59 ex 4, 60 #7-#10, 61 #44, 67 #64-#65, 101 #9-#12, 105 #4-#5 Teacher Wraparound Edition: ICE 57, 58, 59

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Goal 3.6: Apply functions to a variety of problems.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.3.6.1	Model and solve real-world phenomena using multi-step, first degree, single variable equations and inequalities, linear equations, and two-variable linear systems of equations. (353.01.a)	Student Edition: 386 ex 5, 388 #47-#55, 525 ex 3, 529 #59-#61, 535 #18-#20, 537 #68-#70 <i>Graphing Calculator Investigation</i> 539-540 Teacher Wraparound Edition: ICE 525; TT 525
9.M.3.6.2	Use graphs and sequences to represent and solve problems. (347.02.b)	Student Edition: 579 ex 2, 581 #14, 582 #49-#51, 584 ex 2, 586 #14, 587 #45, 591 #37-#38, 595 ex 1, 597 #29-#30, 602 #13, 603 #35 <i>Algebra Activity</i> 19, 580 Teacher Wraparound Edition: ICE 579, 584
Standard 5: Data Analysis, Probability, and Statistics		
Students in Grade 9 interpret and use basic statistical concepts including mean, median, mode, range, and distribution of data, including outliers. Students make predictions and draw conclusions based on statistical measures and students make predictions based on randomness, chance, equally likely events, and probability. Students find probabilities based on dependent, independent, and compound events and students make predictions based on randomness, chance, equally likely events, and probability.		
Goal 5.1: Represent data with a variety of formats.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.5.1.1	Analyze and interpret tables, charts, and graphs, including scatter plots, broken line graphs, and box-and-whisker plots. (352.01.a)	Student Edition: 81-85, 95 #53-#55, 103 #40-#42, 105 #30-#32, 824 Teacher Wraparound Edition: A 86, 88; DI 82; H 81; ICE 82, 83; TT 86
Goal 5.2: Collect, organize, and display data.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.5.2.1	Collect, organize, and display data in tables, charts, and graphs. (352.02.a)	Student Edition: 81 ex 1, 82 ex 2, 84 #6-#9, 85 #15, 89-90 ex 1, 824 <i>Algebra Activity</i> 83 <i>Graphing Calculator Investigation</i> 87-88 Teacher Wraparound Edition: DI 82; ICE 82; TT 86

STANDARDS		PAGE REFERENCES
Goal 5.3: Apply simple statistical measurements.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.5.3.1	Interpret and use basic statistical concepts, including mean, median, mode, range, and distribution of data, including outliers. (352.03.a)	Student Edition: 81 ex 1, 664 ex 1, 680 #47, 695 #19, 822-823 <i>Graphing Calculator Investigation</i> 666 Teacher Wraparound Edition: A 670; GCI 666; ICE 665; TNT 668
9.M.5.3.2	Make predictions and draw conclusions based on statistical measures. (352.05.a)	Student Edition: 81 ex 1, 664 ex 1, 680 #47, 695 #19, 822-823 <i>Graphing Calculator Investigation</i> 666 Teacher Wraparound Edition: A 670; GCI 666; ICE 665; TNT 668
Goal 5.4: Understand basic concepts of probability.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.5.4.1	Find probabilities based on dependent, independent, and compound events.	Student Edition: 632 ex 1, 633 ex 3, 634 ex 4, 651-657 Teacher Wraparound Edition: A 657; DI 654; ICE 652, 653, 654
9.M.5.4.2	Contrast experimental and theoretical probability. (352.04.a)	Student Edition: 649 #66-#69 Teacher Wraparound Edition: A 650
Goal 5.5: Make predictions or decisions based on data.		
Objective(s): By the end of Grade 9, the student will be able to:		
9.M.5.5.1	Make predictions based on randomness, chance, equally likely events, and probability. (352.04.c)	Student Edition: 645 ex 3, 648 #51-#52, 649 #66-#69 Teacher Wraparound Edition: A 650; DI 646; ICE 645
9.M.5.5.2	Use appropriate tools/technology to conduct simulations and employ graphical models to make predictions or decisions based on data. (352.05.a)	Student Edition: 675 #27 <i>Graphing Calculator Investigation</i> 87-88, 666 Teacher Wraparound Edition: GCI 666

STANDARDS	PAGE REFERENCES
9.M.5.5.3 Design, conduct, and interpret results of statistical experiments. (352.05.b)	Student Edition: <i>Algebra Activity</i> 651, 681, 686 <i>Graphing Calculator Investigation</i> 666 Teacher Wraparound Edition: A 650; DI 672
GRADE 10	
Standard 1: Number and Operation	
<p>Students in Grade 10 deepen their understanding of real numbers by applying properties of rational numbers and exponents and by identifying exact and approximate roots without simplification. Students use positive and negative numbers, absolute value, fractions, decimals, percentages, and scientific notation. Students use the proper order of operations and perform operations with rational numbers. Students apply number sense to everyday situations and judge reasonableness of answers.</p>	
Goal 1.1: Understand and use numbers.	
Objective(s): By the end of Grade 10, the student will be able to:	
10.M.1.1.1 Apply properties of rational numbers. (347.01.b)	Student Edition: 11-18, 32 #64-#67, 46 #69-#70 Teacher Wraparound Edition: ICE 225, 247, 601; TNT 228
10.M.1.1.2 Use positive and negative numbers, absolute value, fractions, decimals, percentages, and scientific notation, including application in real world situations. (347.01.a)	Student Edition: 225 ex 6, 226 #13-#17, 227 #50-#55, 601 ex 3, 602 #10-#12, 603 #40-#47 Teacher Wraparound Edition: A 18; CC 13; DI 14, 18; ICE 13; RT 12; TT 12
10.M.1.1.3 Apply properties of exponents. (347.01.c)	Student Edition: 222-228, 232 #58-#61, 238 #3-#5, 276 ex 1, 277 #11-#14, 281 #4 Teacher Wraparound Edition: A 228; CC 224; DI 223; ICE 222, 223, 224
10.M.1.1.4 Identify exact and approximate roots without simplification.	Student Edition: 246 ex 1, 247 ex 3, 248 #4-#6, 249 #65, 256 #59-#61, 294-299, 301-302, 306-312, 313-319 Teacher Wraparound Edition: A 249, 299, 319; ICE 246, 247, 295, 296
10.M.1.1.5 Solve problems using number theory concepts (factors, multiples, primes). (347.01.d)	Student Edition: 239 ex 1, 242-243 #15-#44, 365-370, 460 #55-#60, 619 ex 2, 643 #56-#58 Teacher Wraparound Edition: BPK 239; DI 367; H 239; ICE 367

STANDARDS	PAGE REFERENCES
10.M.1.1.6 Use appropriate vocabulary.	Student Edition: 14 #1, 30 #1, 47 #1-#10, 71 #21, 100 #1-#8, 105 #1-#3, 145 #1-#10, 149 #1-#3, 209 #1-#10, 215 #1-#3, 276 #1-#10, 281 #1-#3, 336 #1-#8, 341 #1-#2 Teacher Wraparound Edition: A 80, 93
Goal 1.2: Perform computations accurately.	
Objective(s): By the end of Grade 10, the student will be able to:	
10.M.1.2.1 Use the order of operations and perform operations with rational numbers. (347.02.a)	Student Edition: 6-10, 18 #78-#81, 27 #81-#82, 46 #73-#75, 48 #11-#17, 51 #4-#6 <i>Graphing Calculator Investigation 7</i> Teacher Wraparound Edition: A 10; DI 8; GCI 7; ICE 7
Goal 1.3: Estimate and judge reasonableness of results.	
Objective(s): By the end of Grade 10, the student will be able to:	
10.M.1.3.1 Apply number sense to everyday situations and judge reasonableness of results. (347.03.a)	Student Edition: 56, 85 #13-#14, 164 #13, 166 #58, 286, 386 ex 5, 485, 539-540, 638, 762 <i>Graphing Calculator Investigation 300, 359</i>
10.M.1.3.2 Identify that error accumulates in a computation when there is rounding. (349.05.b)	Student Edition: 735 ex 3
<u>Standard 2: Concepts and Principles of Measurement</u>	
Students in Grade 10, given relative formulas, determine length, distance, area, surface area, capacity, and weight, with appropriate unit labels. Students formulate and use proportions, ratios, and scaling. Students apply concepts of rates and direct and indirect measurements. Students evaluate given measurement formulas for two- and three-dimensional objects.	
Goal 2.1: Understand and use U.S. customary and metric measurements.	
Objective(s): By the end of Grade 10, the student will be able to:	
10.M.2.1.1 Given the formulas, find the circumference, perimeter, or area of triangles, circles, and quadrilaterals, the volume of spheres, non-oblique prisms, cylinders, and cones, and the surface area of spheres, non-oblique prisms, cylinders, and right square-based pyramids. (349.01.a)	Student Edition: 9 #50, 132 #73, 185 ex 4, 186 #14, 187 #49, 231 #15, 255 #49, 281 #32, 334 #45, 382 #55, 415 #36, 482 #13, 592 #58, 710

STANDARDS	PAGE REFERENCES
10.M.2.1.2 Solve problems involving circumference, perimeter, or area of triangles, circles, and rectangles.	Student Edition: 9 #50, 132 #73, 185 ex 4, 186 #14, 187 #49, 231 #15, 255 #49, 281 #32, 334 #45, 382 #55, 415 #36, 482 #13, 592
Goal 2.2: Apply the concepts of rates, ratios, and proportions.	
Objective(s): By the end of Grade 10, the student will be able to:	
10.M.2.2.1 Use rates, ratios, proportions, map scales, and scale factors (one- and two-dimensional) in problem-solving situations. (349.03.a)	Student Edition: 181 #59-#64, 390, 490 #63-#66, 493-497, 507-508 ex 4 Teacher Wraparound Edition: A 498; ICE 493, 494
10.M.2.2.2 Apply concepts of rates and direct and indirect measurements.	Student Edition: 705 ex 6, 706 #13, 707 #42, 708 #46 Teacher Wraparound Edition: ICE 705
10.M.2.2.3 Construct equivalent units, comparable units, and conversions. (349.02.a)	Student Edition: 390, 393 #12-#13, 394 #42-#43 Teacher Wraparound Edition: H 390
Goal 2.3: Apply dimensional analysis.	
Objective(s): By the end of Grade 10, the student will be able to:	
10.M.2.3.1 Use customary and metric units and their relationship to one another and to real world applications involving length, area, capacity, weight, time, and temperature. (349.04.a)	Student Edition: 292 #5, 390, 393 #12-#13, 494-495 ex 4, 496 #38-#39, 510 #34-#36, 511 #37 Teacher Wraparound Edition: ICE 494
Goal 2.4: Apply appropriate techniques and tools to determine measurements.	
Objective(s): By the end of Grade 10, the student will be able to:	
10.M.2.4.1 Determine and use appropriate units. (349.01.a)	Student Edition: 292 #5, 390, 393 #12-#13, 494-495 ex 4, 496 #38-#39, 510 #34-#36, 511 #37 Teacher Wraparound Edition: ICE 494

STANDARDS	PAGE REFERENCES
10.M.2.4.2 Approximate error in measurement situations.	Student Edition: 738 #38-#40 <i>Key Concept</i> 682 <i>Study Tip</i> 704 Teacher Wraparound Edition: H 682; ICE 683
Standard 3: Concepts and Language of Algebra and Functions	
<p>Students in Grade 10 use appropriate procedures for manipulating and simplifying algebraic expressions involving variables, integers, rational numbers, and for solving multi-step, first-degree equations and inequalities. Students understand the concept and applications of functions and mathematical models. Given graphs, charts, ordered pairs, mappings, or equations, students determine whether a relation is a function. Students evaluate functions written in functional notation and, given a function, students identify domain and range.</p>	
Goal 3.1: Use algebraic symbolism as a tool to represent mathematical relationships.	
Objective(s): By the end of Grade 10, the student will be able to:	
10.M.3.1.1 Represent mathematical relationships using variables, expressions, linear equations and inequalities. (350.01.a)	Student Edition: 8 ex 4, 20 ex 1-ex 2, 22 ex 6, 24 #19-#26, 25 #27-#34, 36 ex 4, 38 #47, 138, 140-141 ex 4, 348 ex 3 Teacher Wraparound Edition: ICE 8, 21, 22, 36, 141, 348
Goal 3.2: Evaluate algebraic expressions.	
Objective(s): By the end of Grade 10, the student will be able to:	
10.M.3.2.1 Use appropriate procedures for manipulating and simplifying algebraic expressions involving variables, integers, and rational numbers. (350.02.a)	Student Edition: 7 ex 2, 14 ex 5, 15 #28-#35, 16 #49-#50, 18 #10, 24 #8-#9, 27 #88-#89, 48 #22-#24, 50 #13-#18 <i>Extra Practice Lesson</i> 1-3 828
Goal 3.3: Solve algebraic equations and inequalities.	
Objective(s): By the end of Grade 10, the student will be able to:	
10.M.3.3.1 Use appropriate procedures to solve multi-step, first-degree equations and inequalities; such as $3(2x - 5) = 5x + 7$ or $3(2x - 5) > 5x + 7$. (350.03.a)	Student Edition: 20-27, 32 #61-#63, 33-39, 46 #61-#63, 49 #23-#33, 50 #40-#45, 51 #19-#24 Teacher Wraparound Edition: DI 22, 35; ICE 21, 22, 23, 34, 35, 64, 65
10.M.3.3.2 Differentiate between linear and non-linear equations and graphs.	Student Edition: 58-59 ex 3-ex 4

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Goal 3.4: Solve simple linear systems of equations.	
Objective(s): By the end of Grade 10, the student will be able to:	
10.M.3.4.1 Use appropriate procedures to solve linear systems of equations involving two variables; such as $x + y = 7$ and $2x + 3y = 21$. (350.04.a)	Student Edition: 110-115, 116-122, 127 #42-#47, 135 #48-#50, 145 #11-#14, 146 #15-#20, 149 #4-#9 Teacher Wraparound Edition: A 115, 122; CC 118; DI 119; ICE 111, 112, 116, 117
Goal 3.5: Understand the concept of functions.	
Objective(s): By the end of Grade 10, the student will be able to:	
10.M.3.5.1 Given graphs, charts, ordered pairs, mappings, or equations, determine whether a relation is a function.	Student Edition: 58 ex 2, 60 #4-#6, 61 #23-#34, 101 #9-#12, 105 #4-#5, 107 #20 Teacher Wraparound Edition: DI 58; ICE 59; TT 57
10.M.3.5.2 Evaluate functions written in functional notation.	Student Edition: 59 ex 5, 60 #11-#12, 61 #46-#51, 74 #61-#64, 101 #13-#16, 105 #6-#7 Teacher Wraparound Edition: A 62; DI 60; ICE 59
10.M.3.5.3 Given a function, identify domain and range.	Student Edition: 57 ex 1, 58 ex 3, 59 ex 4, 60 #7-#10, 61 #44, 67 #64-#65, 101 #9-#12, 105 #4-#5 Teacher Wraparound Edition: ICE 57, 58, 59
Goal 3.6: Apply functions to a variety of problems.	
Objective(s): By the end of Grade 10, the student will be able to:	
10.M.3.6.1 Model and solve real-world phenomena using multi-step, first degree, single variable equations and inequalities, linear equations, and two-variable linear systems of equations. (353.01.a)	Student Edition: 386 ex 5, 388 #47-#55, 525 ex 3, 529 #59-#61, 535 #18-#20, 537 #68-#70 <i>Graphing Calculator Investigation</i> 539-540 Teacher Wraparound Edition: ICE 525; TT 525

STANDARDS	PAGE REFERENCES
10.M.3.6.2 Use graphs and sequences to represent and solve problems. (347.02.b)	Student Edition: 579 ex 2, 581 #14, 582 #49-#51, 584 ex 2, 586 #14, 587 #45, 591 #37-#38, 595 ex 1, 597 #29-#30, 602 #13, 603 #35 <i>Algebra Activity</i> 19, 580 Teacher Wraparound Edition: ICE 579, 584
Standard 5: Data Analysis, Probability, and Statistics	
<p>Students in Grade 10 read, interpret, and use tables, charts, and graphs, including scatter plots, multiple broken line graphs, and box-and-whisker plots. Students interpret and use basic statistical concepts including mean, median, mode, range, and distribution of data, including outliers. Students make predictions and draw conclusions based on statistical measures and students make predictions based on randomness, chance, equally likely events, and probability. Students find probabilities based on dependent, independent, and compound events and students make predictions based on randomness, chance, equally likely events, and probability.</p>	
Goal 5.1: Represent data with a variety of formats.	
Objective(s): By the end of Grade 10, the student will be able to:	
9.M.5.1.1 Analyze and interpret tables, charts, and graphs, including scatter plots, broken line graphs, and box-and-whisker plots. (352.01.a)	Student Edition: 81-85, 95 #53-#55, 103 #40-#42, 105 #30-#32, 824 Teacher Wraparound Edition: A 86, 88; DI 82; H 81; ICE 82, 83; TTT 86
Goal 5.2: Collect, organize, and display data.	
Objective(s): By the end of Grade 10, the student will be able to:	
10.M.5.2.1 Collect, organize, and display data in tables, charts, and graphs. (352.02.a)	Student Edition: 81 ex 1, 82 ex 2, 84 #6-#9, 85 #15, 89-90 ex 1, 824 <i>Algebra Activity</i> 83 <i>Graphing Calculator Investigation</i> 87-88 Teacher Wraparound Edition: DI 82; ICE 82; TT 86
Goal 5.3: Apply simple statistical measurements.	
Objective(s): By the end of Grade 10, the student will be able to:	
10.M.5.3.1 Interpret and use basic statistical concepts, including mean, median, mode, range, and distribution of data, including outliers. (352.03.a)	Student Edition: 81 ex 1, 664 ex 1, 680 #47, 695 #19, 822-823 <i>Graphing Calculator Investigation</i> 666 Teacher Wraparound Edition: A 670; GCI 666; ICE 665; TNT 668

STANDARDS	PAGE REFERENCES
10.M.5.3.2 Make predictions and draw conclusions based on statistical measures. (352.05.a)	Student Edition: 81 ex 1, 664 ex 1, 680 #47, 695 #19, 822-823 <i>Graphing Calculator Investigation</i> 666 Teacher Wraparound Edition: A 670; GCI 666; ICE 665; TNT 668
Goal 5.4: Understand basic concepts of probability.	
Objective(s): By the end of Grade 10, the student will be able to:	
10.M.5.4.1 Find probabilities based on dependent, independent, and compound events.	Student Edition: 632 ex 1, 633 ex 3, 634 ex 4, 651-657 Teacher Wraparound Edition: A 657; DI 654; ICE 652, 653, 654
10.M.5.4.2 Contrast experimental and theoretical probability. (352.04.a)	Student Edition: 649 #66-#69 Teacher Wraparound Edition: A 650
Goal 5.5: Make predictions or decisions based on data.	
Objective(s): By the end of Grade 10, the student will be able to:	
10.M.5.5.1 Make predictions based on randomness, chance, equally likely events, and probability. (352.04.c)	Student Edition: 645 ex 3, 648 #51-#52, 649 #66-#69 Teacher Wraparound Edition: A 650; DI 646; ICE 645
10.M.5.5.2 Use appropriate tools/technology to conduct simulations and employ graphical models to make predictions or decisions based on data. (352.05.a)	Student Edition: 675 #27 <i>Graphing Calculator Investigation</i> 87-88, 666 Teacher Wraparound Edition: GCI 666
10.M.5.5.3 Design, conduct, and interpret results of statistical experiments. (352.05.b)	Student Edition: <i>Algebra Activity</i> 651, 681, 686 <i>Graphing Calculator Investigation</i> 666 Teacher Wraparound Edition: A 650; DI 672