



COURSE 2

Core-Plus Mathematics

Contemporary Mathematics in Context

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STANDARDS	PAGE REFERENCES
Algebra I	
Number and Operations	
1. Understand numbers, ways of representing numbers, relationships among numbers and number systems	
A Read, write and compare numbers	
compare and order rational and irrational numbers, including finding their approximate locations on a number line	Understanding of this standard is assumed, as is reviewed in the following references. Student Edition: <i>Investigation</i> 343 #8-#9 <i>On Your Own</i> 356 #43a-43h, 357 #47a-#47f Teacher Guide: IN T343, T356

STANDARDS	PAGE REFERENCES
B Represent and use rational numbers	
<p>use real numbers and various models, drawing, etc. to solve problems.</p>	<p>Student Edition: <i>Check Your Understanding</i> 169, 175, 180, 466, 471, 473 <i>Investigation</i> 164-168 #1-#10, 170-174 #1-#8, 175-179 #1-#8, 459-466 #1-#9, 467-470 #1-#6, 471-472 #1-#4 <i>On Your Own</i> 181-194 #1-#41, 475-477 #4-#8 <i>Summarize the Mathematics</i> 169, 174, 180, 466, 470, 473 <i>Think About This Situation</i> 163, 459</p> <p>Teacher Guide: AM T194; AN T166; IN T164, T165, T168, T170, T171, T172, T176, T177, T179, T185, T188, T462, T471; MT T169, T174, T176, T180, T470, T473; PM T166; N T469; SM T164, T179, T188, T463, T465; TM T163, T169, T174, T180, T466, T470, T473; TN T165, T177, T183, T190, T472</p>
C Compose and decompose numbers	
<p>*use a variety of representations to demonstrate an understanding of very large and very small numbers</p>	<p>This standard is addressed throughout the book. Examples include the following references.</p> <p>Student Edition: <i>Check Your Understanding</i> 210, 381, 383 <i>Investigation</i> 205-209 #1-#7, 212 #3, 214-215 #6-#8, 378-380 #1-#9, 382-383 #1-#3 <i>On Your Own</i> 384-392 #4-#34 <i>Summarize the Mathematics</i> 209, 381, 383 <i>Think About This Situation</i> 378</p> <p>Teacher Guide: AM T392; IN T207, T208; MT T209, T381, T383; PM T381; SM T206, T208; TM T209, T379, T381, T383</p>

STANDARDS	PAGE REFERENCES
D Classify and describe numeric relationships	
2. Understand meanings of operations and how they relate to one another	
A Represent operations	
B Describe effects of operations	
<p>*describe the effects of operations, such as multiplication, division, and computing powers and roots on the magnitude of quantities</p>	<p>This standard is addressed throughout the book. Examples include the following references.</p> <p>Student Edition: <i>Check Your Understanding</i> 210, 381, 383 <i>Investigation</i> 205-209 #1-#7, 212 #3, 214-215 #6-#8, 378-380 #1-#9, 382-383 #1-#3 <i>On Your Own</i> 384-392 #4-#34 <i>Summarize the Mathematics</i> 209, 381, 383 <i>Think About This Situation</i> 378</p> <p>Teacher Guide: AM T392; IN T207, T208; MT T209, T381, T383; PM T381; SM T206, T208; TM T209, T379, T381, T383</p>
C Apply properties of operations	
D Apply operations on real and complex numbers	
<p>*apply operations to real numbers, using mental computation or paper-and-pencil calculations for simple cases and technology for more complicated cases</p>	<p>Student Edition: 359 <i>Check Your Understanding</i> 363, 367, 407, 412 <i>Investigation</i> 360-362 #1-#5, 364-363 #1-#6, 401-406 #1-#12, 407-411 #1-#9 <i>On Your Own</i> 368-376 #1-#29 <i>Summarize the Mathematics</i> 363, 367, 406, 412 <i>Think About This Situation</i> 360, 401</p> <p>Teacher Guide: AM T376; IN T361, T370, T372, T376, T401, T405, T408, T411; MT T363, T367; SM T373, T404, T405, T408, T411; TM T360, T363, T367, T401, T406; TN T407, T409</p>
3. Compute fluently and make reasonable estimates	
A Describe or represent mental strategies	
B Develop and demonstrate fluency	
C Compute problems	

STANDARDS	PAGE REFERENCES
D Estimate and justify solutions	
<p>*judge the reasonableness of numerical computations and their results</p>	<p>Student Edition: 359 <i>Check Your Understanding</i> 363, 367, 407, 412 <i>Investigation</i> 360-362 #1-#5, 364-363 #1-#6, 401-406 #1-#12, 407-411 #1-#9 <i>On Your Own</i> 368-376 #1-#29 <i>Summarize the Mathematics</i> 363, 367, 406, 412 <i>Think About This Situation</i> 360, 401</p> <p>Teacher Guide: AM T376; IN T361, T370, T372, T376, T401, T405, T408, T411; MT T363, T367; SM T373, T404, T405, T408, T411; TM T360, T363, T367, T401, T406; TN T407, T409</p>
E Use proportional reasoning	
<p>*solve problems involving proportions</p>	<p>Student Edition: <i>Investigation</i> 7-8 #7-#11 <i>On Your Own</i> 35 #4, 194 #40, 357 #49, 538 #7, 541 #15 <i>Summarize the Mathematics</i> 9 #a-#c</p> <p>Teacher Guide: IN T7, T8, T357; TM T29</p>
Algebraic Relationships	
1. Understand patterns, relations and functions	
A Recognize and extend patterns	
B Create and analyze patterns	
<p>generalize patterns using <u>explicitly</u> or <u>recursively</u> defined functions</p>	<p>Student Edition: <i>Investigation</i> 28 #5a-#5c <i>On Your Own</i> 19-20 #8a-#8d, 22 #17, 42 #20, 100 #23a-#23d, 390 #27a-#27c</p> <p>Teacher Guide: IN T28; SM T28</p>
C Classify objects and representations	
<p>compare and contrast various forms of <u>representations</u> of patterns</p>	<p>Student Edition: <i>Check Your Understanding</i> 77 <i>Investigation</i> 5 #2-#5, 28 #5, 77 #4, 84 #3-#6 <i>On Your Own</i> 19-20 #8, 22 #17, 88-89 #3, 316-317 #20-#21, 420 #20 <i>Summarize the Mathematics</i> 77</p> <p>Teacher Guide: IN T5, T6, T11, T12, T13; SM T5, T28; TM T3, T9, T11, T13, T329, T330</p>

STANDARDS	PAGE REFERENCES
D Identify and compare functions	
<p>understand and compare the properties of <u>linear</u> and <u>nonlinear functions</u></p>	<p>Student Edition: <i>Check Your Understanding</i> <i>Investigation</i> 3-8#1-#11, 10-14 #1-#6, 327-330 #1-#6 <i>On Your Own</i> 16-19 #1-#7 <i>Summarize the Mathematics</i> 9, 15, 331 <i>Think About This Situation</i> 3, 327</p> <p>Teacher Guide: IN T77, T84; SM T5, T6, T11, T12, T13; TM T3, T9, T327, T331</p>
E Describe the effects of parameter changes	
<p>describe the effects of <u>parameter changes</u> on <u>linear</u>, <u>exponential growth/decay</u> and <u>quadratic functions</u> including intercepts</p>	<p>Student Edition: 326 <i>Check Your Understanding</i> 33, 331, 335 <i>Investigation</i> 30-32 #1-#7, 327-330 #1-#6, 332-333 #1-#5 <i>On Your Own</i> 21 #11-#12, 22 #13-#14, 34-48 #1-37, 227 #28 <i>Summarize the Mathematics</i> 33, 331, 335</p> <p>Teacher Guide: AM T48; IN T31, T329, T330, T333; MT T33; PM T38; SM T31, T40; TM T33, T331, T335</p>
2. Represent and analyze mathematical situations and structures using algebraic symbols	
A Represent mathematical situations	
<p>use <u>symbolic algebra</u> to represent and solve problems that involve linear and quadratic relationships including equations and inequalities</p>	<p>Student Edition: 326 <i>Check Your Understanding</i> 33, 331, 335, 344 <i>Investigation</i> 30-32 #1-#7, 327-330 #1-#6, 332-333 #1-#5, 341-343 #1-#9 <i>On Your Own</i> 21 #11-#12, 22 #13-#14, 34-48 #1-37, 227 #28, 156 #28, 357 #47-#48, 373-376 #19-#29 <i>Summarize the Mathematics</i> 33, 331, 335, 344</p> <p>Teacher Guide: AM T48, T156; IN T31, T329, T330, T333, T342, T343, T376; MT T33, T344; PM T38; SM T31, T40, T373; TM T33, T331, T335, T344</p>

STANDARDS	PAGE REFERENCES
B Describe and use mathematical manipulation	
describe and use algebraic manipulations, including factoring and rules of integer exponents and apply <u>properties of exponents</u> (including order of operations) to simplify expressions	<p>Student Edition: <i>Check Your Understanding</i> 340, 344, 383 <i>Investigation</i> 336-339 #1-#12, 341-343 #1-#9, 382-383 #1-#3 <i>On Your Own</i> 321 #30 <i>Summarize the Mathematics</i> 340, 344, 383</p> <p>Teacher Guide: IN T337, T342, T382; MT T336, T340, T344, T383; TM T340, T344, T383; TN T339</p>
C Utilize equivalent forms	
use and solve equivalent forms of equations (linear, absolute value, and quadratic)	<p>Student Edition: 326 <i>Check Your Understanding</i> 33, 331, 335, 344 <i>Investigation</i> 30-32 #1-#7, 327-330 #1-#6, 332-333 #1-#5, 341-343 #1-#9 <i>On Your Own</i> 21 #11-#12, 22 #13-#14, 34-48 #1-37, 227 #28, 156 #28, 305 #1, 314 #12, 357 #47-#48, 373-376 #19-#29, 418 #2, 555 #9 <i>Summarize the Mathematics</i> 33, 331, 335, 344</p> <p>Teacher Guide: AM T48, T156; IN T31, T329, T330, T333, T342, T343, T376; MT T33, T344; PM T38; SM T31, T40, T305, T373, T418; TM T33, T331, T335, T344</p>
D Utilize systems	
use and solve systems of linear equations or inequalities with 2 variables	<p>Student Edition: 49 <i>Check Your Understanding</i> 53, 57, 60 <i>Investigation</i> 50-52 #1-#6, 54-56 #1-#4, 57-59 #1-#6 <i>On Your Own</i> 61-68 #1-#31, 37 #24 <i>Summarize the Mathematics</i> 53, 57, 60 <i>Think About This Situation</i> 50</p> <p>Teacher Guide: AM T68; IN T54, T55; MT T53, T57, T60; PM T60; SM T51, T55, T56; TM T50, T53, T57, T60</p>

STANDARDS	PAGE REFERENCES
3. Use mathematical models to represent and understand quantitative relationships	
A Use mathematical models	
<p>identify quantitative relationships and determine the type(s) of functions that might model the situation to solve the problem</p>	<p>Student Edition: 258 <i>Check Your Understanding</i> 264, 268 <i>Investigation</i> 259-263 #1-#6, 264-268 #1-#5 <i>On Your Own</i> 269-279 #1-#26 <i>Summarize the Mathematics</i> 263, 268 <i>Think About This Situation</i> 259</p> <p>Teacher Guide: AM T279; IN T265; MT T263, T268; PM T274; SM T261, T270; TM T259, T263, T268; TN T278</p>
4. Analyze change in various contexts	
A Analyze change	
<p>analyze linear and quadratic functions by investigating rates of change, intercepts and zeros</p>	<p>Student Edition: <i>Check Your Understanding</i> 335 <i>Investigation</i> 287-288 #1-#3, 333-334 #1-#5 <i>On Your Own</i> 38 #9-#10, 40 #15-#16, 318 #23-#24, 346-348 #7-#14 <i>Summarize the Mathematics</i> 335</p> <p>Teacher Guide: IN T287, T333; SM T40</p>
Geometric and Spatial Relationships	
1. Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric	
A Describe and use geometric relationships	
B Apply geometric relationships	
<p>*apply geometric properties such as similarity and angle relationship to solve multi-step problems in 2 dimensions</p>	<p>Student Edition: <i>Check Your Understanding</i> 466, 471, 473 <i>Investigation</i> 459-466 #1-#9, 467-470 #1-#6, 471-472 #1-#4 <i>On Your Own</i> 475-477 #4-#8 <i>Summarize the Mathematics</i> 466, 470, 473 <i>Think About This Situation</i> 459</p> <p>Teacher Guide: IN T462, T471; N T469; MT T470, T473; SM T463, T465; TM T466, T470, T473; TN T472</p>
C Compose and decompose shapes	
2. Specify locations and describe spatial relationships using coordinate geometry and other representational systems	
A Use coordinate systems	

STANDARDS	PAGE REFERENCES
3. Apply transformations and use symmetry to analyze mathematical situations	
A Use transformations on objects	
B Use transformations on functions	
C Use symmetry	
4. Use visualization, spatial reasoning and geometric modeling to solve problems	
A Recognize and draw three-dimensional representations	
B Draw and use visual models	
<p>*draw or use <u>visual models</u> to represent and solve problems</p>	<p>Student Edition: <i>Check Your Understanding</i> 169, 175, 180, 466, 471, 473 <i>Investigation</i> 164-168 #1-#10, 170-174 #1-#8, 175-179 #1-#8, 459-466 #1-#9, 467-470 #1-#6, 471-472 #1-#4 <i>On Your Own</i> 181-194 #1-#41, 475-477 #4-#8 <i>Summarize the Mathematics</i> 169, 174, 180, 466, 470, 473 <i>Think About This Situation</i> 163, 459</p> <p>Teacher Guide: AM T194; AN T166; IN T164, T165, T168, T170, T171, T172, T176, T177, T179, T185, T188, T462, T471; MT T169, T174, T176, T180, T470, T473; PM T166; N T469; SM T164, T179, T188, T463, T465; TM T163, T169, T174, T180, T466, T470, T473; TN T165, T177, T183, T190, T472</p>
Measurement	
1. Understand measurable attributes of objects and the units, systems and processes of measurement	
A Determine unit of measurement	
B Identify equivalent measures	
C Tell and use units of time	
D Count and compute money	
2. Apply appropriate techniques, tools and formulas to determine measurements	
A Use standard or non-standard measurement	
B Use angle measurement	
C Apply geometric measurements	

STANDARDS	PAGE REFERENCES
D Analyze precision	
<p>*describe the effects of operations, such as multiplication, division and computing powers and roots on magnitudes of quantities and effects of computation on <u>precision</u> which include the judging of reasonable of numerical computations and their results</p>	<p>The following examples can be used as a basis to discuss effects on precision.</p> <p>Student Edition: <i>Check Your Understanding</i> 210, 381, 383 <i>Investigation</i> 205-209 #1-#7, 212 #3, 214-215 #6-#8, 378-380 #1-#9, 382-383 #1-#3 <i>On Your Own</i> 384-392 #4-#34 <i>Summarize the Mathematics</i> 209, 381, 383 <i>Think About This Situation</i> 378</p> <p>Teacher Guide: AM T392; IN T207, T208; MT T209, T381, T383; PM T381; SM T206, T208; TM T209, T379, T381, T383</p>
E Use relationships within a measurement system	
<p>*use <u>unit analysis</u> to solve problems</p>	<p>Student Edition: <i>Check Your Understanding</i> 29, 38 <i>Investigation</i> 26-28 #1-#5, 30-32 #1-#7 <i>On Your Own</i> 34-39 #1-#14 <i>Summarize the Mathematics</i> 29, 38 <i>Think About This Situation</i> 26</p> <p>Teacher Guide: IN T28, T31; MT T29; SM T28, T31; TM T29</p>
Data and Probability	
1. Formulate questions that can be addressed with data and collect, organize and display relevant data to answer them	
A Formulate questions	
<p>formulate questions and collect data about a characteristic which include <u>sample spaces</u> and distributions</p>	<p>Student Edition: 522 <i>Check Your Understanding</i> 528, 531 <i>Investigation</i> 524-527 #1-#8, 529-530 #1-#6 <i>On Your Own</i> 536-540 #1-#13 <i>Summarize the Mathematics</i> 528, 531 <i>Think About This Situation</i> 523</p> <p>Teacher Guide: IN T530, T537; MT T528; PM T529, T531; TM T523, T528, T531</p>

STANDARDS		PAGE REFERENCES
B Classify and organize data		
C Represent and interpret data		
select and use appropriate graphical representation of data and given <u>one-variable quantitative data</u> , display the distribution and describe its shape	Student Edition: 522 <i>Check Your Understanding</i> 551 <i>Investigation</i> 524 #1, 529-530 #1-#5 <i>On Your Own</i> 536-540 #1-#13, 555 #9 <i>Summarize the Mathematics</i> 551 Teacher Guide: MT T551; SM T549; TM T551	
2. Select and use appropriate statistical methods to analyze data		
A Describe and analyze data		
apply statistical measures of center to solve problems	Student Edition: 522 <i>Check Your Understanding</i> 551 <i>Investigation</i> 524 #1, 529-530 #1-#5 <i>On Your Own</i> 536-540 #1-#13, 555 #9 <i>Summarize the Mathematics</i> 551 Teacher Guide: MT T551; SM T549; TM T551	
B Compare data representations		
C Represent data algebraically		
given a scatterplot, determine an equation for a <u>line of best fit</u>	Student Edition: 280 <i>Check Your Understanding</i> 285, 291 <i>Investigation</i> 282-284 #1-#4, 286-290 #1-#4 <i>Summarize the Mathematics</i> 285, 290 <i>Think About This Situation</i> 281 Teacher Guide: IN T81, T285, T290; MT T285, T290; TM T281, T285, T290	

STANDARDS	PAGE REFERENCES
3. Develop and evaluate inferences and predictions that are based on data	
A Develop and evaluate inferences	
<p>make <u>conjectures</u> about possible relationships between 2 characteristics of a sample on the basis of scatter plots of the data</p>	<p>Student Edition: 280 <i>Check Your Understanding</i> 285, 291, 298 <i>Investigation</i> 282-284 #1-#4, 286-290 #1-#4, 291-297 #1-#9 <i>Summarize the Mathematics</i> 285, 290, 297 <i>Think About This Situation</i> 281</p> <p>Teacher Guide: IN T81, T285, T290, T296; MT T285, T290; SM T291, T292; TM T281, T285, T290; TN T293, T296</p>
B Analyze basic statistical techniques	
4. Understand and apply basic concepts of probability	
A Apply basic concepts of probability	
B Use and describe compound events	
Geometry	
Number and Operations	
1. Understand numbers, ways of representing numbers, relationships among numbers and number systems	
A Read, write and compare numbers	
<p>compare and order rational and irrational numbers, including finding their approximate locations on a number line</p>	<p>Understanding of this standard is assumed, as is reviewed in the following references.</p> <p>Student Edition: <i>Investigation</i> 343 #8-#9 <i>On Your Own</i> 356 #43a-43h, 357 #47a-#47f</p> <p>Teacher Guide: IN T343, T356</p>

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B Represent and use rational numbers	
use real numbers and various models, drawing, etc. to solve problems.	<p>Student Edition: <i>Check Your Understanding</i> 169, 175, 180, 466, 471, 473 <i>Investigation</i> 164-168 #1-#10, 170-174 #1-#8, 175-179 #1-#8, 459-466 #1-#9, 467-470 #1-#6, 471-472 #1-#4 <i>On Your Own</i> 181-194 #1-#41, 475-477 #4-#8 <i>Summarize the Mathematics</i> 169, 174, 180, 466, 470, 473 <i>Think About This Situation</i> 163, 459</p> <p>Teacher Guide: AM T194; AN T166; IN T164, T165, T168, T170, T171, T172, T176, T177, T179, T185, T188, T462, T471; MT T169, T174, T176, T180, T470, T473; PM T166; N T469; SM T164, T179, T188, T463, T465; TM T163, T169, T174, T180, T466, T470, T473; TN T165, T177, T183, T190, T472</p>
C Compose and decompose numbers	
D Classify and describe numeric relationships	
2. Understand meanings of operations and how they relate to one another	
A Represent operations	
B Describe effects of operations	
C Apply properties of operations	
D Apply operations on real and complex numbers	
*apply operations to real numbers, using mental computation or paper-and-pencil calculations for simple cases and technology for more complicated cases	<p>Student Edition: 359 <i>Check Your Understanding</i> 363, 367, 407, 412 <i>Investigation</i> 360-362 #1-#5, 364-363 #1-#6, 401-406 #1-#12, 407-411 #1-#9 <i>On Your Own</i> 368-376 #1-#29 <i>Summarize the Mathematics</i> 363, 367, 406, 412 <i>Think About This Situation</i> 360, 401</p> <p>Teacher Guide: AM T376; IN T361, T370, T372, T376, T401, T405, T408, T411; MT T363, T367; SM T373, T404, T405, T408, T411; TM T360, T363, T367, T401, T406; TN T407, T409</p>
3. Compute fluently and make reasonable estimates	
A Describe or represent mental strategies	
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STANDARDS	PAGE REFERENCES
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<p>*judge the reasonableness of numerical computations and their results</p>	<p>Student Edition: 359 <i>Check Your Understanding</i> 363, 367, 407, 412 <i>Investigation</i> 360-362 #1-#5, 364-363 #1-#6, 401-406 #1-#12, 407-411 #1-#9 <i>On Your Own</i> 368-376 #1-#29 <i>Summarize the Mathematics</i> 363, 367, 406, 412 <i>Think About This Situation</i> 360, 401</p> <p>Teacher Guide: AM T376; IN T361, T370, T372, T376, T401, T405, T408, T411; MT T363, T367; SM T373, T404, T405, T408, T411; TM T360, T363, T367, T401, T406; TN T407, T409</p>
E Use proportional reasoning	
<p>*solve problems involving proportions</p>	<p>Student Edition: <i>Investigation</i> 7-8 #7-#11 <i>On Your Own</i> 35 #4, 194 #40, 357 #49, 538 #7, 541 #15 <i>Summarize the Mathematics</i> 9 #a-#c</p> <p>Teacher Guide: IN T7, T8, T357; TM T29</p>
Algebraic Relationships	
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B Create and analyze patterns	
<p>generalize patterns using <u>explicitly</u> or <u>recursively</u> defined functions</p>	<p>Student Edition: <i>Investigation</i> 28 #5a-#5c <i>On Your Own</i> 19-20 #8a-#8d, 22 #17, 42 #20, 100 #23a-#23d, 390 #27a-#27c</p> <p>Teacher Guide: IN T28; SM T28</p>
C Classify objects and representations	
<p>compare and contrast various forms of <u>representations</u> of patterns</p>	<p>Student Edition: <i>Check Your Understanding</i> 77 <i>Investigation</i> 5 #2-#5, 28 #5, 77#4, 84#3-#6 <i>On Your Own</i> 19-20 #8, 22 #17, 88-89 #3, 316-317 #20-#21, 420 #20 <i>Summarize the Mathematics</i> 77</p> <p>Teacher Guide: IN T5, T6, T11, T12, T13; SM T5, T28; TM T3, T9, T11, T13, T329, T330</p>

STANDARDS	PAGE REFERENCES
D Identify and compare functions	
<p>apply appropriate <u>properties of exponents</u> to simplify expressions and solve equations</p>	<p>Student Edition: <i>Check Your Understanding</i> 340, 344, 383 <i>Investigation</i> 336-339 #1-#12, 341-343 #1-#9, 382-383 #1-#3 <i>On Your Own</i> 321 #30 <i>Summarize the Mathematics</i> 340, 344, 383</p> <p>Teacher Guide: IN T337, T342, T382; MT T336, T340, T344, T383; TM T340, T344, T383; TN T339</p>
E Describe the effects of parameter changes	
2. Represent and analyze mathematical situations and structures using algebraic symbols	
A Represent mathematical situations	
B Describe and use mathematical manipulation	
C Utilize equivalent forms	
D Utilize systems	
3. Use mathematical models to represent and understand quantitative relationships	
A Use mathematical models	
<p>identify quantitative relationships and determine the type(s) of functions that might model the situation to solve the problem</p>	<p>Student Edition: 258 <i>Check Your Understanding</i> 264, 268 <i>Investigation</i> 259-263 #1-#6, 264-268 #1-#5 <i>On Your Own</i> 269-279 #1-#26 <i>Summarize the Mathematics</i> 263, 268 <i>Think About This Situation</i> 259</p> <p>Teacher Guide: AM T279; IN T265; MT T263, T268; PM T274; SM T261, T270; TM T259, T263, T268; TN T278</p>
4. Analyze change in various contexts	
A Analyze change	
<p>analyze linear and quadratic functions by investigating rates of change and intercepts</p>	<p>Student Edition: <i>Check Your Understanding</i> 335 <i>Investigation</i> 287-288 #1-#3, 333-334 #1-#5 <i>On Your Own</i> 38 #9-#10, 40 #15-#16, 318 #23-#24, 346-348 #7-#14 <i>Summarize the Mathematics</i> 335</p> <p>Teacher Guide: IN T287, T333; SM T40</p>

STANDARDS	PAGE REFERENCES
Geometric and Spatial Relationships	
1. Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric	
A Describe and use geometric relationships	
<p>use inductive and deductive reasoning to establish the validity of geometric <u>conjectures</u>, prove theorems and critique arguments made by others</p>	<p>Student Edition: <i>Check Your Understanding</i> 169, 175, 180 <i>Investigation</i> 164-168 #1-#10, 170-174 #1-#8, 175-179 #1-#8 <i>On Your Own</i> 181-194 #1-#41 <i>Summarize the Mathematics</i> 169, 174, 180 <i>Think About This Situation</i> 163</p> <p>Teacher Guide: AM T194; AN T166; IN T164, T165, T168, T170, T171, T172, T176, T177, T179, T185, T188; MT T169, T174, T176, T180; PM T166; SM T164, T179, T188; TM T163, T169, T174, T180; TN T165, T177, T183, T190</p>
B Apply geometric relationships	
C Compose and decompose shapes	
2. Specify locations and describe spatial relationships using coordinate geometry and other representational systems	
A Use coordinate systems	
<p>make conjectures and solve problems involving 2-dimensional objects represented with Cartesian coordinates</p>	<p>Student Edition: <i>Check Your Understanding</i> 169, 175, 180 <i>Investigation</i> 164-168 #1-#10, 170-174 #1-#8, 175-179 #1-#8 <i>On Your Own</i> 181-194 #1-#41 <i>Summarize the Mathematics</i> 169, 174, 180 <i>Think About This Situation</i> 163</p> <p>Teacher Guide: AM T194; AN T166; IN T164, T165, T168, T170, T171, T172, T176, T177, T179, T185, T188; MT T169, T174, T176, T180; PM T166; SM T164, T179, T188; TM T163, T169, T174, T180; TN T165, T177, T183, T190</p>

STANDARDS	PAGE REFERENCES
3. Apply transformations and use symmetry to analyze mathematical situations	
A Use transformations on objects	
use and apply constructions and the coordinate plane to represent translations, reflections, rotations and dilations of objects	<p>Student Edition: <i>Check Your Understanding</i> 205, 210, 216 <i>Investigation</i> 197-203 #1-11, 206-209 #1-#7, 210-215 #1-#9 <i>On Your Own</i> 217-230 #1-#43 <i>Summarize the Mathematics</i> 204, 209, 216</p> <p>Teacher Guide: AM T230; AN T199; IN T199, T200, T207, T208, T211, T223; PM T216; SM T197, T201, T202, T203, T205, T206, T208, T217, T219, T220, T225; TM T216</p>
B Use transformations on functions	
C Use symmetry	
identify types of symmetries of 2- and 3-dimensional figures	<p>Student Edition: <i>Check Your Understanding</i> 205 <i>Investigation</i> 200-203 #6-#11</p> <p>Teacher Guide: AN T201; IN T200; SM T200, T202, T203, T205</p>
4. Use visualization, spatial reasoning and geometric modeling to solve problems	
A Recognize and draw three-dimensional representations	
draw and use vertex-edge graphs or networks to find optimal solutions and draw representations of 3- dimensional geometric objects from different perspectives	<p>The following sections address vertex-edge graphs and can also be used to address 3-D representations.</p> <p>Student Edition: <i>Check Your Understanding</i> 407, 412, 416 <i>Investigation</i> 401-405 #1-#12, 407-411 #1-#9, 412-415 #1-#7 <i>On Your Own</i> 417-433 #1-#31 <i>Summarize the Mathematics</i> 406, 412, 416 <i>Think About This Situation</i> 401</p> <p>Teacher Guide: AM 433; IN T401, T402, T405, T408, T409, T413, T414, T419; SM T404, T405, T408, T411, T414, T418; TM T401, T406, T416; TN T409, T418, T424</p>

STANDARDS	PAGE REFERENCES
<p>B Draw and use visual models</p> <p>*draw or use visual models to represent and solve problems</p>	<p>Student Edition: <i>Check Your Understanding</i> 169, 175, 180, 466, 471, 473 <i>Investigation</i> 164-168 #1-#10, 170-174 #1-#8, 175-179 #1-#8, 459-466 #1-#9, 467-470 #1-#6, 471-472 #1-#4 <i>On Your Own</i> 181-194 #1-#41, 475-477 #4-#8 <i>Summarize the Mathematics</i> 169, 174, 180, 466, 470, 473 <i>Think About This Situation</i> 163, 459</p> <p>Teacher Guide: AM T194; AN T166; IN T164, T165, T168, T170, T171, T172, T176, T177, T179, T185, T188, T462, T471; MT T169, T174, T176, T180, T470, T473; PM T166; N T469; SM T164, T179, T188, T463, T465; TM T163, T169, T174, T180, T466, T470, T473; TN T165, T177, T183, T190, T472</p>
<p>Measurement</p> <p>1. Understand measurable attributes of objects and the units, systems and processes of measurement</p> <p>A Determine unit of measurement</p> <p>B Identify equivalent measures</p> <p>C Tell and use units of time</p> <p>D Count and compute money</p> <p>2. Apply appropriate techniques, tools and formulas to determine measurements</p> <p>A Use standard or non-standard measurement</p> <p>B Use angle measurement</p>	
<p>solve problems of angle measure, including those involving triangles or other polygons and of parallel lines cut by a transversal</p>	<p>Student Edition: <i>Check Your Understanding</i> 466, 471, 473 <i>Investigation</i> 459-466 #1-#9, 467-470 #1-#6, 471-472 #1-#4 <i>On Your Own</i> 475-477 #4-#8 <i>Summarize the Mathematics</i> 466, 470, 473 <i>Think About This Situation</i> 459</p> <p>Teacher Guide: IN T462, T471; N T469; MT T470, T473; SM T463, T465; TM T466, T470, T473; TN T472</p>

STANDARDS	PAGE REFERENCES
C Apply geometric measurements	
determine the surface area, and volume of geometric figures, including cones, spheres, and cylinders	Student Edition: <i>On Your Own</i> 18 #5, 21 #27, 39 #14, 102 #29, 130 #26, 391 #29, 481 #18 Teacher Guide: AM T24, T102
D Analyze precision	
E Use relationships within a measurement system	
*use unit <u>analysis</u> to solve problems	Student Edition: <i>Check Your Understanding</i> 29, 38 <i>Investigation</i> 26-28 #1-#5, 30-32 #1-#7 <i>On Your Own</i> 34-39 #1-#14 <i>Summarize the Mathematics</i> 29, 38 <i>Think About This Situation</i> 26 Teacher Guide: IN T28, T31; MT T29; SM T28, T31; TM T29
Data and Probability	
1. Formulate questions that can be addressed with data and collect, organize and display relevant data to answer them	
A Formulate questions	
formulate and collect data about a characteristic	Student Edition: 522 <i>Check Your Understanding</i> 528, 531 <i>Investigation</i> 524-527 #1-#8, 529-530 #1-#6 <i>On Your Own</i> 536-540 #1-#13 <i>Summarize the Mathematics</i> 528, 531 <i>Think About This Situation</i> 523 Teacher Guide: IN T530, T537; MT T528; PM T529, T531; TM T523, T528, T531
B Classify and organize data	
C Represent and interpret data	
select and use appropriate graphical representation of data and given <u>one-variable quantitative data</u> , display the distribution and describe its shape	Student Edition: 522 <i>Check Your Understanding</i> 551 <i>Investigation</i> 524 #1, 529-530 #1-#5 <i>On Your Own</i> 536-540 #1-#13, 555 #9 <i>Summarize the Mathematics</i> 551 Teacher Guide: MT T551; SM T549; TM T551

STANDARDS	PAGE REFERENCES
2. Select and use appropriate statistical methods to analyze data	
A Describe and analyze data	
B Compare data representations	
C Represent data algebraically	
3. Develop and evaluate inferences and predictions that are based on data	
A Develop and evaluate inferences	
B Analyze basic statistical techniques	
4. Understand and apply basic concepts of probability	
A Apply basic concepts of probability	
B Use and describe compound events	
Algebra II	
Number and Operations	
1. Understand numbers, ways of representing numbers, relationships among numbers and number systems	
A Read, write and compare numbers	
<p>compare and order rational and irrational numbers, including finding their approximate locations on a number line</p>	<p>Understanding of this standard is assumed, as is reviewed in the following references.</p> <p>Student Edition: <i>Investigation</i> 343 #8-#9 <i>On Your Own</i> 356 #43a-43h, 357 #47a-#47f</p> <p>Teacher Guide: IN T343, T356</p>
B Represent and use rational numbers	
<p>use real numbers and various models, drawing, etc. to solve problems.</p>	<p>Student Edition: <i>Check Your Understanding</i> 169, 175, 180, 466, 471, 473 <i>Investigation</i> 164-168 #1-#10, 170-174 #1-#8, 175-179 #1-#8, 459-466 #1-#9, 467-470 #1-#6, 471-472 #1-#4 <i>On Your Own</i> 181-194 #1-#41, 475-477 #4-#8 <i>Summarize the Mathematics</i> 169, 174, 180, 466, 470, 473 <i>Think About This Situation</i> 163, 459</p> <p>Teacher Guide: AM T194; AN T166; IN T164, T165, T168, T170, T171, T172, T176, T177, T179, T185, T188, T462, T471; MT T169, T174, T176, T180, T470, T473; PM T166; N T469; SM T164, T179, T188, T463, T465; TM T163, T169, T174, T180, T466, T470, T473; TN T165, T177, T183, T190, T472</p>

STANDARDS	PAGE REFERENCES
C Compose and decompose numbers	
<p>*use a variety of representations to demonstrate an understanding of very large and very small numbers</p>	<p>This standard is addressed throughout the book. Examples include the following references.</p> <p>Student Edition: <i>Check Your Understanding</i> 210, 381, 383 <i>Investigation</i> 205-209 #1-#7, 212 #3, 214-215 #6-#8, 378-380 #1-#9, 382-383 #1-#3 <i>On Your Own</i> 384-392 #4-#34 <i>Summarize the Mathematics</i> 209, 381, 383 <i>Think About This Situation</i> 378</p> <p>Teacher Guide: AM T392; IN T207, T208; MT T209, T381, T383; PM T381; SM T206, T208; TM T209, T379, T381, T383</p>
D Classify and describe numeric relationships	
2. Understand meanings of operations and how they relate to one another	
A Represent operations	
B Describe effects of operations	
C Apply properties of operations	
D Apply operations on real and complex numbers	
<p>*apply operations to matrices and complex numbers, using mental computation or paper-and-pencil calculations for simple cases and technology for more complicated cases</p>	<p>Student Edition: 359 <i>Check Your Understanding</i> 85, 111, 363, 367, 407, 412 <i>Investigation</i> 82-84 #1-#6, 108-111 #1-#7, 360-362 #1-#5, 364-363 #1-#6, 401-406 #1-#12, 407-411 #1-#9 <i>On Your Own</i> 87-102 #1-#30, 368-376 #1-#29 <i>Summarize the Mathematics</i> 85, 111, 363, 367, 406, 412 <i>Think About This Situation</i> 360, 401</p> <p>Teacher Guide: AM T376; AN T112; IN T82, T83, T84, T109, T110, T111, T112, T361, T370, T372, T376, T401, T405, T408, T411; MT T85, T111, T363, T367; SM T109, T373, T404, T405, T408, T411; TM T111, T360, T363, T367, T401, T406; TN T87, T112, T407, T409</p>
3. Compute fluently and make reasonable estimates	
A Describe or represent mental strategies	
B Develop and demonstrate fluency	
C Compute problems	

STANDARDS	PAGE REFERENCES
D Estimate and justify solutions	
<p>*judge the reasonableness of numerical computations and their results</p>	<p>Student Edition: 359 <i>Check Your Understanding</i> 363, 367, 407, 412 <i>Investigation</i> 360-362 #1-#5, 364-363 #1-#6, 401-406 #1-#12, 407-411 #1-#9 <i>On Your Own</i> 368-376 #1-#29 <i>Summarize the Mathematics</i> 363, 367, 406, 412 <i>Think About This Situation</i> 360, 401</p> <p>Teacher Guide: AM T376; IN T361, T370, T372, T376, T401, T405, T408, T411; MT T363, T367; SM T373, T404, T405, T408, T411; TM T360, T363, T367, T401, T406; TN T407, T409</p>
E Use proportional reasoning	
<p>*solve problems involving proportions</p>	<p>Student Edition: <i>Investigation</i> 7-8 #7-#11 <i>On Your Own</i> 35 #4, 194 #40, 357 #49, 538 #7, 541 #15 <i>Summarize the Mathematics</i> 9 #a-#c</p> <p>Teacher Guide: IN T7, T8, T357; TM T29</p>
Algebraic Relationships	
1. Understand patterns, relations and functions	
A Recognize and extend patterns	
B Create and analyze patterns	
<p>generalize patterns using <u>explicitly</u> or <u>recursively</u> defined functions</p>	<p>Student Edition: <i>Investigation</i> 28 #5a-#5c <i>On Your Own</i> 19-20 #8a-#8d, 22 #17, 42 #20, 100 #23a-#23d, 390 #27a-#27c</p> <p>Teacher Guide: IN T28; SM T28</p>
C Classify objects and representations	
<p>compare and contrast various forms of <u>representations</u> of patterns</p>	<p>Student Edition: <i>Check Your Understanding</i> 77 <i>Investigation</i> 5 #2-#5, 28 #5, 77#4, 84#3-#6 <i>On Your Own</i> 19-20 #8, 22 #17, 88-89 #3, 316-317 #20-#21, 420 #20 <i>Summarize the Mathematics</i> 77</p> <p>Teacher Guide: IN T5, T6, T11, T12, T13; SM T5, T28; TM T3, T9, T11, T13, T329, T330</p>

STANDARDS	PAGE REFERENCES
D Identify and compare functions	
compare the properties of linear, exponential, logarithmic and rational functions	<p>Student Edition: <i>Check Your Understanding</i> 380,383 <i>Investigation</i> 3-8#1-#11, 10-14 #1-#6, 327-330 #1-#6, 377-380 #1-#9, 382-383 #1-#3 <i>On Your Own</i> 16-19 #1-#7, 384-39 #1-#34 <i>Summarize the Mathematics</i> 9, 15, 331, 380, 383 <i>Think About This Situation</i> 3, 327</p> <p>Teacher Guide: AM T392; IN T77, T84, T382, T386; MT T381, T384; SM T5, T6, T11, T12, T13; TM T3, T9, T327, T331, T378, T381, T384</p>
E Describe the effects of parameter changes	
describe the effects of <u>parameter changes</u> on functions	<p>Student Edition: 326 <i>Check Your Understanding</i> 33, 331, 335 <i>Investigation</i> 30-32 #1-#7, 327-330 #1-#6, 332-333 #1-#5 <i>On Your Own</i> 21 #11-#12, 22 #13-#14, 34-48 #1-37, 227 #28 <i>Summarize the Mathematics</i> 33, 331, 335</p> <p>Teacher Guide: AM T48; IN T31, T329, T330, T333; MT T33; PM T38; SM T31, T40; TM T33, T331, T335</p>
2. Represent and analyze mathematical situations and structures using algebraic symbols	
A Represent mathematical situations	
use <u>symbolic algebra</u> to represent and solve problems that involve exponential, quadratic and logarithmic relationships	<p>Student Edition: 326 <i>Check Your Understanding</i> 33, 331, 335, 344 <i>Investigation</i> 30-32 #1-#7, 327-330 #1-#6, 332-333 #1-#5, 341-343 #1-#9 <i>On Your Own</i> 21 #11-#12, 22 #13-#14, 34-48 #1-37, 227 #28, 156 #28, 357 #47-#48, 373-376 #19-#29 <i>Summarize the Mathematics</i> 33, 331, 335, 344</p> <p>Teacher Guide: AM T48, T156; IN T31, T329, T330, T333, T342, T343, T376; MT T33, T344; PM T38; SM T31, T40, T373; TM T33, T331, T335, T344</p>

STANDARDS	PAGE REFERENCES
B Describe and use mathematical manipulation	
describe and use algebraic manipulations, <u>inverse</u> or <u>composition</u> of functions	<p>Student Edition: <i>Check Your Understanding</i> 340, 344, 383 <i>Investigation</i> 336-339 #1-#12, 341-343 #1-#9, 382-383 #1-#3 <i>On Your Own</i> 321 #30 <i>Summarize the Mathematics</i> 340, 344, 383</p> <p>Teacher Guide: IN T337, T342, T382; MT T336, T340, T344, T383; TM T340, T344, T383; TN T339</p>
C Utilize equivalent forms	
use and solve equivalent forms of equations and inequalities	<p>Student Edition: 326 <i>Check Your Understanding</i> 33, 331, 335, 344 <i>Investigation</i> 30-32 #1-#7, 327-330 #1-#6, 332-333 #1-#5, 341-343 #1-#9 <i>On Your Own</i> 21 #11-#12, 22 #13-#14, 34-48 #1-37, 227 #28, 156 #28, 305 #1, 314 #12, 357 #47-#48, 373-376 #19-#29, 418 #2, 555 #9 <i>Summarize the Mathematics</i> 33, 331, 335, 344</p> <p>Teacher Guide: AM T48, T156; IN T31, T329, T330, T333, T342, T343, T376; MT T33, T344; PM T38; SM T31, T40, T305, T373, T418; TM T33, T331, T335, T344</p>
D Utilize systems	
use and solve systems of linear and quadratic equations or inequalities with 2 variables	<p>Student Edition: 49, 326 <i>Check Your Understanding</i> 33, 53, 57, 60, 331, 335, 344 <i>Investigation</i> 30-32 #1-#7, 50-52 #1-#6, 54-56 #1-#4, 57-59 #1-#6, 327-330 #1-#6, 332-333 #1-#5, 341-343 #1-#9 <i>On Your Own</i> 21 227 #28, 156 #28, 61-68 #1-#31, 37 #24, 357 #47-#48, 373-376 #19-#29 <i>Summarize the Mathematics</i> 33, 53, 57, 60, 331, 335, 344 <i>Think About This Situation</i> 50</p> <p>Teacher Guide: AM T48, T68, T156; IN T31, T54, T55, T329, T330, T333, T342, T343, T376; MT T33, T53, T57, T60, T344; PM T38, T60; SM T31, T40, T51, T55, T56, T373; TM T33, T50, T53, T57, T60, T331, T335, T344</p>

STANDARDS	PAGE REFERENCES
3. Use mathematical models to represent and understand quantitative relationships	
A Use mathematical models	
<p>identify quantitative relationships and determine the type(s) of functions that might model the situation to solve the problem</p>	<p>Student Edition: 258 <i>Check Your Understanding</i> 264, 268 <i>Investigation</i> 259-263 #1-#6, 264-268 #1-#5 <i>On Your Own</i> 269-279 #1-#26 <i>Summarize the Mathematics</i> 263, 268 <i>Think About This Situation</i> 259</p> <p>Teacher Guide: AM T279; IN T265; MT T263, T268; PM T274; SM T261, T270; TM T259, T263, T268; TN T278</p>
4. Analyze change in various contexts	
A Analyze change	
<p>analyze exponential and logarithmic functions by investigating rates of change, intercepts and asymptotes</p>	<p>The following references on exponential and logarithmic functions can be extended to address rates of change, intercepts, and asymptotes.</p> <p>Student Edition: 326 <i>Check Your Understanding</i> 33, 331, 335, 344 <i>Investigation</i> 30-32 #1-#7, 327-330 #1-#6, 332-333 #1-#5, 341-343 #1-#9 <i>On Your Own</i> 21 #11-#12, 22 #13-#14, 34-48 #1-37, 227 #28, 156 #28, 357 #47-#48, 373-376 #19-#29 <i>Summarize the Mathematics</i> 33, 331, 335, 344</p> <p>Teacher Guide: AM T48, T156; IN T31, T329, T330, T333, T342, T343, T376; MT T33, T344; PM T38; SM T31, T40, T373; TM T33, T331, T335, T344</p>
Geometric and Spatial Relationships	
1. Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric	
A Describe and use geometric relationships	
<p>use trigonometric relationships with right triangles to determine lengths and angle measures</p>	<p>Student Edition: <i>Check Your Understanding</i> 466, 471, 473 <i>Investigation</i> 459-466 #1-#9, 467-470 #1-#6, 471-472 #1-#4 <i>On Your Own</i> 475-477 #4-#8 <i>Summarize the Mathematics</i> 466, 470, 473 <i>Think About This Situation</i> 459</p> <p>Teacher Guide: IN T462, T471; N T469; MT T470, T473; SM T463, T465; TM T466, T470, T473; TN T472</p>

STANDARDS	PAGE REFERENCES
B Apply geometric relationships	
C Compose and decompose shapes	
2. Specify locations and describe spatial relationships using coordinate geometry and other representational systems	
A Use coordinate systems	
3. Apply transformations and use symmetry to analyze mathematical situations	
A Use transformations on objects	
B Use transformations on functions	
translate, dilate and reflect <u>functions</u>	<p>The following references to translation, dilation, and reflection can be used and extended to discuss these operations on functions.</p> <p>Student Edition: <i>Check Your Understanding</i> 205, 210, 216 <i>Investigation</i> 197-203 #1-11, 206-209 #1-#7, 210-215 #1-#9 <i>On Your Own</i> 217-230 #1-#43 <i>Summarize the Mathematics</i> 204, 209, 216</p> <p>Teacher Guide: AM T230; AN T199; IN T199, T200, T207, T208, T211, T223; PM T216; SM T197, T201, T202, T203, T205, T206, T208, T217, T219, T220, T225; TM T216</p>
C Use symmetry	
4. Use visualization, spatial reasoning and geometric modeling to solve problems	
A Recognize and draw three-dimensional representations	
B Draw and use visual models	
*draw or use <u>visual models</u> to represent and solve problems	<p>Student Edition: <i>Check Your Understanding</i> 169, 175, 180, 466, 471, 473 <i>Investigation</i> 164-168 #1-#10, 170-174 #1-#8, 175-179 #1-#8, 459-466 #1-#9, 467-470 #1-#6, 471-472 #1-#4 <i>On Your Own</i> 181-194 #1-#41, 475-477 #4-#8 <i>Summarize the Mathematics</i> 169, 174, 180, 466, 470, 473 <i>Think About This Situation</i> 163, 459</p> <p>Teacher Guide: AM T194; AN T166; IN T164, T165, T168, T170, T171, T172, T176, T177, T179, T185, T188, T462, T471; MT T169, T174, T176, T180, T470, T473; PM T166; N T469; SM T164, T179, T188, T463, T465; TM T163, T169, T174, T180, T466, T470, T473; TN T165, T177, T183, T190, T472</p>

STANDARDS	PAGE REFERENCES
Measurement	
1. Understand measurable attributes of objects and the units, systems and processes of measurement	
A Determine unit of measurement	
B Identify equivalent measures	
C Tell and use units of time	
D Count and compute money	
2. Apply appropriate techniques, tools and formulas to determine measurements	
A Use standard or non-standard measurement	
B Use angle measurement	
C Apply geometric measurements	
D Analyze precision	
apply concepts of successive approximation	<p>The following references can be used and expanded to address successive approximation</p> <p>Student Edition: 359 <i>Check Your Understanding</i> 363, 367 <i>Investigation</i> 360-362 #1-#5, 364-363 #1-#6 <i>On Your Own</i> 368-376 #1-#29 <i>Summarize the Mathematics</i> 363, 367 <i>Think About This Situation</i> 360</p> <p>Teacher Guide: AM T376; IN T361, T370, T372, T376; MT T363, T367; SM T373; TM T360, T363, T367</p>
E Use relationships within a measurement system	
*use <u>unit analysis</u> to solve problems involving rates, such as speed, density or population density	<p>Student Edition: <i>Check Your Understanding</i> 29, 38 <i>Investigation</i> 26-28 #1-#5, 30-32 #1-#7 <i>On Your Own</i> 34-39 #1-#14 <i>Summarize the Mathematics</i> 29, 38 <i>Think About This Situation</i> 26</p> <p>Teacher Guide: IN T28, T31; MT T29; SM T28, T31; TM T29</p>
Data and Probability	
1. Formulate questions that can be addressed with data and collect, organize and display relevant data to answer them	
A Formulate questions	
B Classify and organize data	

STANDARDS	PAGE REFERENCES
C Represent and interpret data	
select and use appropriate graphical representation of data and given <u>one-variable quantitative data</u> , describe its shape and calculate <u>summary statistics</u>	Student Edition: 522 <i>Check Your Understanding</i> 551 <i>Investigation</i> 524 #1, 529-530 #1-#5 <i>On Your Own</i> 536-540 #1-#13, 555 #9 <i>Summarize the Mathematics</i> 551 Teacher Guide: MT T551; SM T549; TM T551
2. Select and use appropriate statistical methods to analyze data	
A Describe and analyze data	
apply statistical measures of center to solve problems	Student Edition: 522 <i>Check Your Understanding</i> 551 <i>Investigation</i> 524 #1, 529-530 #1-#5 <i>On Your Own</i> 536-540 #1-#13, 555 #9 <i>Summarize the Mathematics</i> 551 Teacher Guide: MT T551; SM T549; TM T551
B Compare data representations	
C Represent data algebraically	
given a scatterplot, determine a type of function which models the data	Student Edition: 280 <i>Check Your Understanding</i> 285, 291, 298 <i>Investigation</i> 282-284 #1-#4, 286-290 #1-#4, 291-297 #1-#9 <i>Summarize the Mathematics</i> 285, 290, 297 <i>Think About This Situation</i> 281 Teacher Guide: IN T81, T285, T290, T296; MT T285, T290; SM T291, T292; TM T281, T285, T290, T297; TN T293, T296
3. Develop and evaluate inferences and predictions that are based on data	
A Develop and evaluate inferences	
B Analyze basic statistical techniques	

STANDARDS	PAGE REFERENCES
4. Understand and apply basic concepts of probability	
A Apply basic concepts of probability	
describe the concepts of <u>sample space</u> and <u>probability distribution</u>	<p>Student Edition: 522 <i>Check Your Understanding</i> 528, 531 <i>Investigation</i> 524-527 #1-#8, 529-530 #1-#6 <i>On Your Own</i> 536-540 #1-#13 <i>Summarize the Mathematics</i> 528, 531 <i>Think About This Situation</i> 523</p> <p>Teacher Guide: IN T530, T537; MT T528; PM T529, T531; TM T523, T528, T531</p>
B Use and describe compound events	
use and describe the concepts of conditional probability and independent events and how to compute the probability of a <u>compound event</u>	<p>Student Edition: <i>Check Your Understanding</i> 541-542 #16-#21 <i>Investigation</i> 528-531 #1-#6, 532-53 #1-#5 <i>On Your Own</i> 541-542 #16-#21 <i>Summarize the Mathematics</i> 531, 535</p> <p>Teacher Guide: IN T530; MT T531, T535; PM T529; TM T531, T535</p>