



Pre-Algebra

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STANDARDS	PAGE REFERENCES
GRADE 6	
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 integers, positive rationals and percents, including finding their approximate location on a number line ST MA 5 3.3 FR IX.b	Student Edition: 56-61, 64-68, 200-204, 209 #52, 281-285 <i>Reading Mathematics</i> 269 Teacher Wraparound Edition: DI 59, 202 Teacher Resources: <i>Enrichment</i> 61 <i>Reading to Learn Mathematics</i> 317
B. Represent and use rational numbers	
recognize and generate equivalent forms of fractions, decimals and percents ST MA 1 3.3 FR V.b	Student Edition: 281-285, 292 #29-31, 293-297 Teacher Wraparound Edition: DI 282 Teacher Resources: <i>Practice</i> 316 <i>Reading to Learn Mathematics</i> 317, 327 <i>Skills Practice</i> 315 <i>Study Guide and Intervention</i> 31, 324

STANDARDS	PAGE REFERENCES
C. Compose and decompose numbers	
<p>recognize equivalent representations for the same number and generate them by <u>decomposing and composing numbers</u>, including expanded notation</p> <p>ST MA 1 3.6 FR V.b</p>	<p>Student Edition: 148-152, 153-157, 159-163, 164-168, 186-190</p> <p>Teacher Wraparound Edition: DI 150, 155</p> <p>Teacher Resources: <i>Enrichment</i> 174 <i>Reading to Learn Mathematics</i> 173, 178 <i>Study Guide and Intervention</i> 165</p>
D. Classify and describe numeric relationships	
<p>use factors and multiples to describe relationships between and among numbers, including whole number <u>common factors and multiples</u></p> <p>ST MA 5 1.10 FR IX.c</p>	<p>Student Edition: 148-152, 153-157, 159-163, 164-168, 186-190</p> <p>Teacher Wraparound Edition: DI 150</p> <p>Teacher Resources: <i>Enrichment</i> 174, 184 <i>Practice</i> 167 <i>Reading to Learn Mathematics</i> 188</p>
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 addition and subtraction on fractions and decimals</p> <p>ST MA 1, 5 3.4, 4.1 FR V.a, IX.a</p>	<p>Student Edition: 220-224, 232-236</p> <p>Teacher Wraparound Edition: DI 222; OEA 224, 236</p> <p>Teacher Resources: <i>Practice</i> 247 <i>Reading to Learn Mathematics</i> 248, 258 <i>Skills Practice</i> 246 <i>Study Guide and Intervention</i> 245</p> <p>With these references, students are going beyond the skill of describing.</p>
C. Apply properties of operations	
D. Apply operations on real and complex numbers	

STANDARDS	PAGE REFERENCES
3. Compute fluently and make reasonable estimates	
A. Describe or represent mental strategies	
B. Develop and demonstrate fluency	
C. Compute problems	
add and subtract positive rational numbers ST MA 1 1.10, 3.3 FR V.a	Student Edition: 220-224, 232-236 Teacher Wraparound Edition: DI 222; OEA 224, 236 Teacher Resources: <i>Practice 247</i> <i>Reading to Learn Mathematics 248, 258</i> <i>Skills Practice 246</i> <i>Study Guide and Intervention 245</i>
D. Estimate and justify solutions	
estimate and justify the results of addition and subtraction of positive rational numbers ST MA 1 3.3, 4.1 FR V.e & h	The following references could be integrated to meet this standard. Student Edition: 220-224, 232-236 Teacher Wraparound Edition: DI 222; OEA 224, 236
E. Use proportional reasoning	
solve problems using equivalent ratios ST MA 1 3.3 FR V.c	Student Edition: 264-268, 270-274, 276-280, 281-285, 288-292 <i>Algebra Activity 275</i> Teacher Wraparound Edition: DI 273 Teacher Resources: <i>Enrichment 303, 313</i> <i>Study Guide and Intervention 299</i>

STANDARDS	PAGE REFERENCES
Algebraic Relationships	
1. Understand patterns, relations and functions	
A. Recognize and extend patterns	
B. Create and analyze patterns	
<p>represent and describe patterns with tables, graphs, pictures, <u>symbolic rules</u> or words</p> <p>ST MA 4 1.6, 3.6 FR VIII.4.b, VIII.3</p>	<p>Student Edition: 6-10, 74 #57, 167 #53, 249-252 <i>Algebra Activity</i> 62-63, 253, 368, 386</p> <p>Teacher Wraparound Edition: OEA 252</p> <p>Teacher Resources: <i>Enrichment</i> 274</p>
C. Classify objects and representations	
<p>compare various forms of <u>representations</u> to identify a pattern</p> <p>ST MA 4 1.6 FR VIII.3.b</p>	<p>Student Edition: 6-10, 249-252, 393-397, 630-633 <i>Algebra Activity</i> 386, 392 <i>Graphing Calculator Investigation</i> 402-403</p> <p>Teacher Wraparound Edition: DI 8</p> <p>Teacher Resources: <i>Enrichment</i> 5, 691</p>
D. Identify and compare functions	
<p>identify <u>functions</u> as <u>linear</u> or <u>nonlinear</u> from a table or graph</p> <p>ST MA 4 1.6, 3.6 FR VIII.b & c</p>	<p>Student Edition: 375-379</p> <p>Teacher Resources: <i>Practice</i> 424 <i>Reading to Learn Mathematics</i> 425 <i>Skills Practice</i> 423 <i>Study Guide and Intervention</i> 422</p>
E. Describe the effects of parameter changes	

STANDARDS	PAGE REFERENCES
2. Represent and analyze mathematical situations and structures using algebraic symbols	
A. Represent mathematical situations	
<p>use variables to represent unknown quantities in expressions</p> <p>ST MA 4 1.6, 3.1</p> <p>FR VIII.2e</p>	<p>Student Edition: 17-21, 23-27, 98-102, 103-107</p> <p><i>Spreadsheet Investigation 22</i></p> <p>Teacher Wraparound Edition: DI 18, 105; OEA 21</p> <p>Teacher Resources: <i>Enrichment 106</i> <i>Reading to Learn Mathematics 115</i></p>
B. Describe and use mathematical manipulation	
<p>recognize equivalent forms for simple algebraic expressions (associative, distributive properties)</p> <p>ST MA 5 3.6</p> <p>FR IX.1</p>	<p>Student Edition: 23-27, 38 #53, 48 #35, 98-102, 103-107, 334-338</p> <p>Teacher Resources: <i>Enrichment 20, 116</i> <i>Practice 18</i> <i>Study Guide and Intervention 16, 107</i></p>
C. Utilize equivalent forms	
D. Utilize systems	
3. Use mathematical models to represent and understand quantitative relationships	
A. Use mathematical models	
<p><u>model</u> and solve problems, using multiple representations such as graphs, tables, expressions and equations</p> <p>ST MA 4 1.6, 3.6</p> <p>FR VIII.b</p>	<p>Student Edition: 75-79 (using a number line), 103-107 (translating from verbal language to mathematics), 113 #33-36, #43-44, 118 #45-48, 123 #47-48, 126-130, 404-408</p> <p><i>Algebra Activity 62-63, 108-109</i> <i>Reading Mathematics 125</i></p>

STANDARDS	PAGE REFERENCES
4. Analyze change in various contexts	
A. Analyze change	
<p>compare situations with constant or varying rates of change</p> <p>ST MA 2, 4 1.6, 4.1</p> <p>FR VI.I, VIII.c</p>	<p>Student Edition: 387-391, 393-397</p> <p><i>Algebra Activity</i> 386, 392</p> <p><i>Graphing Calculator Investigation</i> 402-403</p> <p>Teacher Wraparound Edition: DI 395; OEA 391, 397; UM 394</p> <p>Teacher Resources: <i>Enrichment</i> 431, 436</p>
Geometric and Spatial Relationships	
1. Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships	
A. Describe and use geometric relationships	
<p>identify the <u>properties of 1- 2- and 3-dimensional shapes</u> using the appropriate geometric vocabulary</p> <p>ST MA 2 1.10, 3.3</p> <p>FR VI.2.a</p>	<p>Student Edition: 492-497, 500-504, 513-517, 520-525, 527-531, 533-537, 556-561, 584-588</p> <p><i>Algebra Activity</i> 505, 518-519</p>
B. Apply geometric relationships	
<p>describe relationships between the <u>corresponding angles</u> and the length of <u>corresponding sides</u> of <u>similar triangles</u> (whole number scale factors)</p> <p>ST MA 2 1.6</p> <p>FR VI.c</p>	<p>Student Edition: 471-475, 477-481</p> <p><i>Algebra Activity</i> 476</p> <p>Teacher Wraparound Edition: DI 473; UM 472</p> <p>Teacher Resources: <i>Enrichment</i> 523</p> <p><i>Practice</i> 521</p> <p><i>Reading to Learn Mathematics</i> 522</p> <p><i>Skills Practice</i> 520</p> <p><i>Study Guide and Intervention</i> 519</p>
C. Compose and decompose shapes	

STANDARDS	PAGE REFERENCES
<p>2. Specify locations and describe spatial relationships using coordinate geometry and other representational systems</p> <hr/>	
<p>A. Use coordinate systems</p>	
<p>use coordinate geometry to construct geometric shapes ST MA 2 1.6, 1.8 FR VI.a</p>	<p>Student Edition: 506-511 <i>Algebra Activity 512</i> Teacher Resources: <i>Enrichment 563</i> <i>Practice 561</i> <i>Skills Practice 560</i> <i>Study Guide and Intervention 559</i></p>
<p>3. Apply transformations and use symmetry to analyze mathematical situations</p> <hr/>	
<p>A. Use transformations on objects</p>	
<p>describe the transformation from a given <u>pre-image</u> to its image using the terms <u>reflection/flips</u>, <u>rotation/turn</u> and <u>translation/slide</u> ST MA 2 3.7 FR VI.b</p>	<p>Student Edition: 506-511 <i>Algebra Activity 512</i> Teacher Wraparound Edition: DI 508, 528, 532 Teacher Resources: <i>Enrichment 446, 563</i> <i>Practice 561</i> <i>Skills Practice 560</i> <i>Study Guide and Intervention 559</i></p>
<p>B. Use transformations on functions</p>	
<p>C. Use symmetry</p>	
<p>create polygons and designs with <u>rotational symmetry</u> ST MA 2 1.6 FR VI.b</p>	<p>Student Edition: 527-531 <i>Algebra Activity 505, 532</i> Teacher Wraparound Edition: DI 528</p>
<p>4. Use visualization, spatial reasoning and geometric modeling to solve problems</p> <hr/>	
<p>A. Recognize and draw three-dimensional representations</p>	
<p>use spatial visualization to identify <u>isometric representations</u> of <u>mat plans</u> ST MA 2 3.3 FR VI.a</p>	<p>Student Edition: 509 #6, 527-531 <i>Geometry Activity 554-555</i> Teacher Resources: <i>Practice 576</i></p>

STANDARDS	PAGE REFERENCES
B. Draw and use visual models	
draw or use <u>visual models</u> to represent and solve problems ST MA 2 3.1 FR VI.d	Student Edition: 103-107, 164, 210, 281 <i>Algebra Activity</i> 62-63, 108-109, 286-287, 328-329, 368 Teacher Resources: <i>Enrichment</i> 239
Measurement	
1. Understand measurable attributes of objects and the units, systems and processes of measurement	
A. Determine unit of measurement	
identify and justify an angle as acute, obtuse, straight or right ST MA 2 3.1, 4.1 FR VI.g	Student Edition: 447-451 <i>Reading Mathematics</i> 446 Teacher Wraparound Edition: DI 449; OEA 451 Teacher Resources: <i>Practice</i> 501 <i>Reading to Learn Mathematics</i> 502 <i>Skills Practice</i> 500 <i>Study Guide and Intervention</i> 499
B. Identify equivalent measures	
C. Tell and use units of time	
solve problems involving elapsed time (hours and minutes) ST MA 5 3.1 FR IX.d	See Glencoe's <i>Mathematics: Applications and Concepts Course 1</i> © 2006 Student Edition: 495-497
D. Count and compute money	

STANDARDS	PAGE REFERENCES
2. Apply appropriate techniques, tools and formulas to determine measurements	
A. Use standard or non-standard measurement	
estimate a measurement using either <u>standard</u> or <u>non-standard</u> unit of measurement ST MA 2 1.6, 3.3 FR VI.e & f	Student Edition: 447-451, 590-594 Teacher Resources: Reading to Learn Mathematics 642
B. Use angle measurement	
select and use <u>benchmarks</u> to estimate measurements of 0-, 45-, 90-, 180-, 360-degree angles ST MA 2 3.4 FR VI.f & g	Student Edition: The following pages could be integrated to meet this standard. 447-451, 457 #40
C. Apply geometric measurements	
describe how to solve problems involving the area or perimeter of polygons ST MA 2 3.4, 4.1 FR VI.i & g	Student Edition: 520-525, 533-537, 539-543 Algebra Activity 518-519 Teacher Wraparound Edition: DI 521 Teacher Resources: Enrichment 573 Practice 571 Reading to Learn Mathematics 572 Skills Practice 570 Study Guide and Intervention 569
D. Analyze precision	
E. Use relationships within a measurement system	
convert from one unit to another within a system of measurement (mass and weight) ST MA 2 1.6, 1.10 FR VI.e & f	Student Edition: 168 #76-81, 263 #1-15, 272 Ex 4, 274 #42, #52-55 Prerequisite Skills 718-719, 720-721

STANDARDS	PAGE REFERENCES
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 questions, design studies and collect data about a characteristic ST MA 3 1.2 FR VII.a	Student Edition: 43 #20, 610 #26-27 <i>Algebra Activity</i> 39, 180, 237, 275, 386, 392, 640 <i>Graphing Calculator Investigation</i> 46 #9
B. Classify and organize data	
C. Represent and interpret data	
interpret circle graphs; create and interpret <u>stem-and-leaf plots</u> ST MA 3 1.8 FR VII.b	Student Edition: 450 #32-34, 537 #32-33, 606-611 <i>Spreadsheet Investigation</i> 452 Teacher Wraparound Edition: DI 611; OEA 611 Teacher Resources: <i>Enrichment</i> 671 <i>Reading to Learn Mathematics</i> 670 <i>Skills Practice</i> 668 <i>Study Guide and Intervention</i> 667
2. Select and use appropriate statistical methods to analyze data	
A. Describe and analyze data	
find the <u>range and measures of center</u> , including <u>median, mode and mean</u> ST MA 3 3.2 FR VII.c	Student Edition: 238-242, 612-616, 617-621 <i>Graphing Calculator Investigation</i> 243 Teacher Wraparound Edition: OEA 242 Teacher Resources: <i>Enrichment</i> 264 <i>Practice</i> 262 <i>Reading to Learn Mathematics</i> 263 <i>Skills Practice</i> 261 <i>Study Guide and Intervention</i> 260

STANDARDS	PAGE REFERENCES
B. Compare data representations	
<p>compare different representations of the same data and evaluate how well each representation shows important aspects of the data</p> <p>ST MA 3 3.6 FR VII.d</p>	<p>Student Edition: 623-628, 630-633</p> <p>Teacher Wraparound Edition: OEA 633</p> <p>Teacher Resources: <i>Enrichment</i> 691 <i>Practice</i> 689 <i>Reading to Learn Mathematics</i> 690 <i>Skills Practice</i> 688 <i>Study Guide and Intervention</i> 687</p>
C. Represent data algebraically	
3. Develop and evaluate inferences and predictions that are based on data	

A. Develop and evaluate inferences	
<p>use observations about differences between 2 samples to make <u>conjectures</u> about the populations from which the samples were taken</p> <p>ST MA 3 3.5 FR VII.e</p>	<p>Student Edition: <i>Reading Mathematics</i> 634</p>
B. Analyze basic statistical techniques	
4. Understand and apply basic concepts of probability	

A. Apply basic concepts of probability	
<p>use a model (diagrams, list, sample space or area model) to illustrate the possible outcomes of an event</p> <p>ST MA 3, 6 3.2 FR VII.g, X.c</p>	<p>Student Edition: 635-639 <i>Algebra Activity</i> 640, 656</p> <p>Teacher Wraparound Edition: DI 636; OEA 639</p> <p>Teacher Resources: <i>Enrichment</i> 696 <i>Practice</i> 694 <i>Skills Practice</i> 693 <i>Study Guide and Intervention</i> 692</p>
B. Use and describe compound events	

STANDARDS	PAGE REFERENCES
GRADE 7	
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 integers, positive rationals and percents, including finding their approximate location on a number line</p> <p>ST MA 5 3.3 FR IX.b</p>	<p>Student Edition: 56-61, 64-68, 200-204, 209 #52, 281-285 <i>Reading Mathematics</i> 269</p> <p>Teacher Wraparound Edition: DI 59, 202</p> <p>Teacher Resources: <i>Enrichment</i> 61 <i>Reading to Learn Mathematics</i> 317</p>
B. Represent and use rational numbers	
<p>use fractions, decimals and percents to solve problems</p> <p>ST MA 1 3.4 FR V.d</p>	<p>Student Edition: 210-214, 215-219, 220-224, 232-236, 244-248, 264-268, 276-280, 281-285, 288-292, 298-302</p>
C. Compose and decompose numbers	
<p>recognize equivalent representations for the same number and generate them by <u>decomposing and composing numbers</u>, including exponential notation</p> <p>ST MA 1 3.6 FR V.b</p>	<p>Student Edition: 148-152, 153-157, 159-163, 164-168, 186-190</p> <p>Teacher Wraparound Edition: DI 150, 155</p> <p>Teacher Resources: <i>Enrichment</i> 174 <i>Reading to Learn Mathematics</i> 173, 178 <i>Study Guide and Intervention</i> 165</p>
D. Classify and describe numeric relationships	
<p>use whole number <u>factors</u> and <u>multiples</u> to describe relationships between and among numbers</p> <p>ST MA 5 1.10 FR IX.c</p>	<p>Student Edition 148-152, 153-157, 159-163, 164-168, 186-190</p> <p>Teacher Wraparound Edition: DI 150</p> <p>Teacher Resources: <i>Enrichment</i> 174, 184 <i>Practice</i> 167 <i>Reading to Learn Mathematics</i> 188</p>

STANDARDS	PAGE REFERENCES
2. Understand meanings of operations and how they relate to one another	
A. Represent operations	
B. Describe effects of operations	
describe the effects of multiplication and division on fractions and addition and subtraction on integers ST MA 1 3.4, 4.1 FR V.a	Student Edition: 64-68, 70-74, 210-214, 215-219 <i>Algebra Activity</i> 62-63 Teacher Wraparound Edition: OEA 74 Teacher Resources: <i>Enrichment</i> 239 <i>Reading to Learn Mathematics</i> 65, 70, 238, 243
C. Apply properties of operations	
apply <u>properties of operations</u> (including order of operations) to positive rational numbers ST MA 5 1.6, 1.10 FR IX.e	Student Edition: 12-16, 23-27, 210-214, 215-219, 220-224 Teacher Resources: <i>Enrichment</i> 10, 239 <i>Practice</i> 8 <i>Skills Practice</i> 7 <i>Study Guide and Intervention</i> 6
D. Apply operations on real and complex numbers	
approximate the value of square roots to the nearest whole number ST MA 5 3.3 FR IX.f	Student Edition: 436-440, 445 #69-71, 451 #43-44 Teacher Resources: <i>Practice</i> 491 <i>Skills Practice</i> 490 <i>Study Guide and Intervention</i> 489

STANDARDS		PAGE REFERENCES
3. Compute fluently and make reasonable estimates		
A. Describe or represent mental strategies		
B. Develop and demonstrate fluency		
C. Compute problems		
multiply and divide positive rational numbers ST MA 1 1.10, 3.3 FR V.a	Student Edition: 210-214, 215-219 Teacher Wraparound Edition: DI 212 Teacher Resources: <i>Enrichment 239</i> <i>Practice 237, 242</i> <i>Reading to Learn Mathematics 238, 243</i> <i>Skills Practice 236</i> <i>Study Guide and Intervention 235</i>	
D. Estimate and justify solutions		
estimate and justify the results of multiplication and division of positive rational numbers ST MA 1 3.3, 4.1 FR V.e & h	Student Edition: 210-214, 215-219 Teacher Wraparound Edition: DI 212 Teacher Resources: <i>Enrichment 239, 244</i> <i>Practice 237, 242</i> <i>Reading to Learn Mathematics 238</i> <i>Skills Practice 236</i> <i>Study Guide and Intervention 235</i>	
E. Use proportional reasoning		
solve problems involving proportions, such as scaling and finding equivalent ratios ST MA 1 3.3 FR V.c & f	Student Edition: 270-274, 276-280, 281-285 <i>Algebra Activity 275</i> Teacher Wraparound Edition: DI 273, 278; OEA 280 Teacher Resources: <i>Enrichment 308, 313</i> <i>Study Guide and Intervention 304</i>	

STANDARDS	PAGE REFERENCES
Algebraic Relationships	
1. Understand patterns, relations and functions	
A. Recognize and extend patterns	
B. Create and analyze patterns	
analyze patterns represented <u>graphically</u> or <u>numerically</u> using words or <u>symbolic rules</u> , including <u>recursive notation</u> ST MA 4 1.6, 3.6 FR VIII.4.b	Student Edition: 6-10, 33-38, 40-44, 249-252, 372 #28-29 <i>Algebra Activity</i> 39, 253, 368, 386 <i>Graphing Calculator Investigation</i> 45 Teacher Resources: <i>Enrichment</i> 274
C. Classify objects and representations	
compare and contrast various forms of <u>representations</u> of patterns ST MA 4 1.6 FR VIII.3.b	Student Edition: 6-10, 249-252, 393-397, 630-633 <i>Algebra Activity</i> 386, 392 <i>Graphing Calculator Investigation</i> 402-403 Teacher Wraparound Edition: DI 8 Teacher Resources: <i>Enrichment</i> 5, 691
D. Identify and compare functions	
identify <u>functions</u> as <u>linear</u> or <u>nonlinear</u> from tables, graphs or equations ST MA 4 1.6, 3.6 FR VIII.b & c	Student Edition: 375-379 Teacher Resources: <i>Practice</i> 424 <i>Reading to Learn Mathematics</i> 425 <i>Skills Practice</i> 423 <i>Study Guide and Intervention</i> 422
E. Describe the effects of parameter changes	

STANDARDS	PAGE REFERENCES
2. Represent and analyze mathematical situations and structures using algebraic symbols	
A. Represent mathematical situations	
<p>use variables to represent unknown quantities in equations and inequalities ST MA 4 1.6, 3.1 FR VIII.2.e</p>	<p>Student Edition: 110-114, 115-119, 120-124, 126-130, 298-302, 355-359 <i>Algebra Activity</i> 108-109 <i>Reading Mathematics</i> 125 Teacher Wraparound Edition: TT 121 Teacher Resources: <i>Enrichment</i> 126</p>
B. Describe and use mathematical manipulation	
<p>generate equivalent forms for simple algebraic expressions ST MA 4 3.6 FR VIII.a</p>	<p>Student Edition: 23-27, 98-102, 103-107 Teacher Resources: <i>Enrichment</i> 20, 116, 121 <i>Practice</i> 109 <i>Reading to Learn Mathematics</i> 115 <i>Skills Practice</i> 108 <i>Study Guide and Intervention</i> 107</p>
C. Utilize equivalent forms	
D. Utilize systems	
3. Use mathematical models to represent and understand quantitative relationships	
A. Use mathematical models	
<p><u>model</u> and solve problems, using multiple representations such as graphs, tables, expressions, equations or inequalities ST MA 4 1.6, 3.6 FR VIII.b</p>	<p>Student Edition: 393-397, 404-408, 414-418 <i>Algebra Activity</i> 62-63, 108-109, 328-329 <i>Reading Mathematics</i> 125, 339 Teacher Resources: <i>Enrichment</i> 239, 381</p>

STANDARDS	PAGE REFERENCES
4. Analyze change in various contexts	
A. Analyze change	
<p>compare situations with constant or varying rates of change</p> <p>ST MA 2, 4 1.6, 4.1</p> <p>FR VI.I, VIII.c</p>	<p>Student Edition: 387-391, 393-397</p> <p><i>Algebra Activity</i> 386, 392</p> <p><i>Graphing Calculator Investigation</i> 402-403</p> <p>Teacher Wraparound Edition: DI 395; OEA 391, 397; UM 394</p> <p>Teacher Resources: <i>Enrichment</i> 431, 436</p>
Geometric and Spatial Relationships	
1. Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships	
A. Describe and use geometric relationships	
<p>classify 2- and 3-dimensional shapes based on their <u>properties</u></p> <p>ST MA 2 3.6</p> <p>FR VI.2.a</p>	<p>Student Edition: 492-497, 500-504, 513-517, 520-525, 527-531, 533-537, 556-561, 584-588</p> <p><i>Algebra Activity</i> 505, 518-519</p>
B. Apply geometric relationships	
<p>describe relationships between <u>corresponding sides</u>, <u>corresponding angles</u> and corresponding perimeters of <u>similar polygons</u></p> <p>ST MA 2 1.6</p> <p>FR VI.c</p>	<p>Student Edition: 471-475, 477-481</p> <p><i>Algebra Activity</i> 476</p> <p>Teacher Wraparound Edition: DI 473; UM 472</p> <p>Teacher Resources: <i>Enrichment</i> 523</p> <p><i>Practice</i> 521</p> <p><i>Reading to Learn Mathematics</i> 522</p> <p><i>Skills Practice</i> 520</p> <p><i>Study Guide and Intervention</i> 519</p>
C. Compose and decompose shapes	

STANDARDS	PAGE REFERENCES
<p>2. Specify locations and describe spatial relationships using coordinate geometry and other representational systems</p> <hr/>	
<p>A. Use coordinate systems</p>	
<p>given ordered pairs, identify geometric shapes in the <u>coordinate plane</u> using their properties ST MA 2 1.6, 1.8 FR VI.c</p>	<p>Student Edition: 506-511 <i>Algebra Activity 512</i> Teacher Resources: <i>Enrichment 563</i> <i>Practice 561</i> <i>Skills Practice 560</i> <i>Study Guide and Intervention 559</i></p>
<p>3. Apply transformations and use symmetry to analyze mathematical situations</p> <hr/>	
<p>A. Use transformations on objects</p>	
<p>reposition shapes under <u>informal</u> transformations, such as reflection (flip), rotation (turn) and translation (slide) ST MA 2 3.6 FR VI.b</p>	<p>Student Edition: 506-511 <i>Algebra Activity 512</i> Teacher Wraparound Edition: DI 508, 528, 532 Teacher Resources: <i>Enrichment 446, 563</i> <i>Practice 561</i> <i>Skills Practice 560</i> <i>Study Guide and Intervention 559</i></p>
<p>B. Use transformations on functions</p>	
<p>describe the relationship between the scale factor and the perimeter of the image using a <u>dilation</u> (<u>contractions-magnifications</u>) (stretching/shrinking) ST MA 2 3.6 FR VI.b & g</p>	<p>Student Edition: 280 #25 <i>Algebra Activity 512</i></p>
<p>C. Use symmetry</p>	
<p>determine all lines of symmetry of polygons ST MA 2 1.6 FR VI.b</p>	<p>Student Edition: <i>Algebra Activity 505</i></p>

STANDARDS	PAGE REFERENCES
4. Use visualization, spatial reasoning and geometric modeling to solve problems	
A. Recognize and draw three-dimensional representations	
use spatial visualizations to identify various 2-dimensional views of <u>isometric drawings</u> ST MA 2 3.3 FR VI.a	Student Edition: 556-561 <i>Geometry Activity</i> 554-555 Teacher Resources: <i>Practice</i> 611 <i>Skills Practice</i> 610 <i>Study Guide and Intervention</i> 609
B. Draw and use visual models	
draw or use <u>visual models</u> to represent and solve problems ST MA 2 3.1 FR VI.d	Student Edition: 103-107, 164, 210, 281 <i>Algebra Activity</i> 62-63, 108-109, 286-287, 328-329, 368 Teacher Resources: <i>Enrichment</i> 239
Measurement	
1. Understand measurable attributes of objects and the units, systems and processes of measurement	
A. Determine unit of measurement	
identify and justify the unit of measure for volume (customary and metric) ST MA 2 3.1, 4.1 FR VI.f & g	Student Edition: 563-567 <i>Geometry Activity</i> 562 Teacher Wraparound Edition: UM 534
B. Identify equivalent measures	
identify the equivalent area measures within a system of measurement (e.g., sq ft. to sq in.) ST MA 2 1.6 FR VI.i	This objective could be integrated into the following. Student Edition: Chapter 10 Section 5 or throughout Chapter 11.

STANDARDS	PAGE REFERENCES
C. Tell and use units of time	
solve problems involving addition and subtraction of time (hours, minutes and seconds) ST MA 5 3.1 FR IX.d	See Glencoe's <i>Mathematics: Applications and Concepts</i> Course 1 © 2006 Student Edition: 494-497
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	
use tools to measure angles to the nearest degree ST MA 2 1.4, 3.2 FR VI.f	Student Edition: 447-451, 457 #41-44, 464 #47, 497 #46-50 Teacher Wraparound Edition: DI 449; OEA 451; UM 448 Teacher Resources: <i>Enrichment 503</i> <i>Practice 501</i>
C. Apply geometric measurements	
describe how to solve problems involving circumference and/or area of a circle ST MA 2 3.4, 4.1 FR VI.i & g	Student Edition: 533-538, 539-543 Teacher Wraparound Edition: DI 536 Teacher Resources: <i>Enrichment 583</i> <i>Practice 581, 586</i> <i>Reading to Learn Mathematics 582</i> <i>Skills Practice 580</i> <i>Study Guide and Intervention 579, 584</i>

STANDARDS	PAGE REFERENCES
D. Analyze precision	
analyze <u>precision</u> and accuracy in measurement situations ST MA 2 1.7, 3.8 FR VI.f	Student Edition: 590-594 <i>Reading Mathematics</i> 589 Teacher Wraparound Edition: OEA 594 Teacher Resources: <i>Practice</i> 641 <i>Reading to Learn Mathematics</i> 642 <i>Skills Practice</i> 640 <i>Study Guide and Intervention</i> 639
E. Use relationships within a measurement system	
convert from one unit to another within a system of measurement (capacity) ST MA 2 1.6, 1.10 FR VI.e & f	Student Edition: 263 #1-15, 274 #41 <i>Prerequisite Skills</i> 718-719, 720-721
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 questions, design studies and collect data about a characteristic ST MA 3 1.2 FR VII.a	Student Edition: 43 #20, 610 #26-27 <i>Algebra Activity</i> 39, 180, 237, 275, 386, 392, 640 <i>Graphing Calculator Investigation</i> 46 #9
B. Classify and organize data	
C. Represent and interpret data	
select, create and use appropriate graphical representation of data, including circle graphs, <u>histograms and box plots (box and whiskers)</u> ST MA 3 1.8, 3.6 FR VII.b	Student Edition: 450 #32-34, 537 #32-33, 617-621, 623-628, 630-633 <i>Graphing Calculator Investigation</i> 622, 629 <i>Spreadsheet Investigation</i> 452 Teacher Wraparound Edition: OEA 621 Teacher Resources: <i>Enrichment</i> 686

STANDARDS	PAGE REFERENCES
2. Select and use appropriate statistical methods to analyze data	
A. Describe and analyze data	
<p>find, use and interpret <u>measures of center</u> and <u>spread</u>, including ranges and <u>interquartile range</u></p> <p>ST MA 3 3.4</p>	<p>Student Edition: 238-242, 612-616 <i>Algebra Activity</i> 237 <i>Graphing Calculator Investigation</i> 243</p> <p>Teacher Resources: <i>Enrichment</i> 264, 676 <i>Practice</i> 262 <i>Reading to Learn Mathematics</i> 263 <i>Skills Practice</i> 261 <i>Study Guide and Intervention</i> 260</p>
B. Compare data representations	
<p>compare different representations of the same data and evaluate how well each representation shows important aspects of the data</p> <p>ST MA 3 3.6 FR VII.d</p>	<p>Student Edition: 623-628, 630-633</p> <p>Teacher Wraparound Edition: OEA 633</p> <p>Teacher Resources: <i>Enrichment</i> 691 <i>Practice</i> 689 <i>Reading to Learn Mathematics</i> 690 <i>Skills Practice</i> 688 <i>Study Guide and Intervention</i> 687</p>
C. Represent data algebraically	
3. Develop and evaluate inferences and predictions that are based on data	
A. Develop and evaluate inferences	
<p>use observations about differences between samples to make <u>conjectures</u> about the populations from which the samples were taken</p> <p>ST MA 3 3.5 FR VII.e</p>	<p>Student Edition: <i>Reading Mathematics</i> 634</p>

STANDARDS	PAGE REFERENCES
B. Analyze basic statistical techniques	
4. Understand and apply basic concepts of probability	
A. Apply basic concepts of probability	
<p>use models to compute the probability of an event ST MA 3, 6 3.3 FR VII.h & g, X.c</p>	<p>Student Edition: 310-314, 646-649, 650-655 <i>Algebra Activity</i> 640 <i>Graphing Calculator Investigation</i> 315 Teacher Wraparound Edition: OEA 655 Teacher Resources: <i>Enrichment</i> 343, 706, 711 <i>Practice</i> 341</p>
B. Use and describe compound events	
GRADE 8	
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 rationals and percents, including finding their approximate locations on a number line ST MA 5 3.3 FR IX.b</p>	<p>Student Edition: 56-61, 64-68, 200-204, 209 #52, 281-285 <i>Reading Mathematics</i> 269 Teacher Wraparound Edition: DI 59, 202 Teacher Resources: <i>Enrichment</i> 61 <i>Reading to Learn Mathematics</i> 317</p>
B. Represent and use rational numbers	
<p>use fractions, decimals and percents to solve problems ST MA 1 3.4 FR V.d</p>	<p>Student Edition: 210-214, 215-219, 220-224, 232-236, 244-248, 264-268, 276-280, 281-285, 288-292, 298-302</p>

STANDARDS	PAGE REFERENCES
C. Compose and decompose numbers	
<p>recognize equivalent representations for the same number and generate them by <u>decomposing and composing numbers</u>, including scientific notation</p> <p>ST MA 1 3.6 FR V.b</p>	<p>Student Edition: 148-152, 153-157, 159-163, 164-168, 186-190</p> <p>Teacher Wraparound Edition: DI 150, 155</p> <p>Teacher Resources: <i>Enrichment</i> 174 <i>Reading to Learn Mathematics</i> 173, 178 <i>Study Guide and Intervention</i> 165</p>
D. Classify and describe numeric relationships	
<p>use factors and <u>multiples</u> to describe relationships between and among numbers and justify characteristics of numbers</p> <p>ST MA 5 1.10 FR IX.c</p>	<p>Student Edition: 148-152, 153-157, 159-163, 164-168, 186-190</p> <p>Teacher Wraparound Edition: DI 150</p> <p>Teacher Resources: <i>Enrichment</i> 174, 184 <i>Practice</i> 167 <i>Reading to Learn Mathematics</i> 188</p>
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 multiplication and division on integers</p> <p>ST MA 1 3.4, 4.1 FR V.a</p>	<p>Student Edition: 75-79, 80-84</p> <p>Teacher Wraparound Edition: DI 79, 81; OEA 79, 84</p> <p>Teacher Resources: <i>Reading to Learn Mathematics</i> 75, 80</p>
C. Apply properties of operations	
<p>apply <u>properties of operations</u> to rational numbers, including order of operations and inverse operations</p> <p>ST MA 5 1.6, 1.10 FR IX.e</p>	<p>Student Edition: 12-16, 23-27, 210-214, 215-219, 220-224</p> <p>Teacher Resources: <i>Enrichment</i> 10, 239 <i>Practice</i> 8 <i>Skills Practice</i> 7 <i>Study Guide and Intervention</i> 6</p>

STANDARDS	PAGE REFERENCES
D. Apply operations on real and complex numbers	
apply the relationship between squares and square roots and cubes and cube roots to solve a problem ST MA 5 1.6, 3.4 FR IX.f	Student Edition: 441-445, 460-464 Teacher Resources: <i>Enrichment 513</i> <i>Practice 486, 511</i> <i>Reading to Learn Mathematics 512</i> <i>Skills Practice 495, 509</i>
3. Compute fluently and make reasonable estimates	
A. Describe or represent mental strategies	
B. Develop and demonstrate fluency	
C. Compute problems	
apply all operations on rational numbers ST MA 1 1.10, 3.3 FR V.a	Student Edition: 64-68, 70-74, 75-79, 80-84, 210-214, 215-219, 220-224, 232-236, 244-248, 330-333
D. Estimate and justify solutions	
estimate and justify the results of all operations on rational numbers ST MA 1 3.3, 4.1 FR V.e & h	Teachers can encourage students to use these skills in the following sections: Student Edition: 64-68, 70-74, 75-79, 80-84, 210-214, 215-219, 220-224, 232-236, 244-248, 330-333
E. Use proportional reasoning	
solve problems involving proportions, such as scaling and finding equivalent ratios ST MA 1 3.3 FR V.c & f	Student Edition: 270-274, 276-280, 281-285 <i>Algebra Activity 275</i> Teacher Wraparound Edition: <i>DI 273, 278; OEA 280</i> Teacher Resources: <i>Enrichment 308, 313</i> <i>Study Guide and Intervention 304</i>

STANDARDS	PAGE REFERENCES
Algebraic Relationships	
1. Understand patterns, relations and functions	
A. Recognize and extend patterns	
B. Create and analyze patterns	
generalize patterns represented <u>graphically</u> or <u>numerically</u> using words or <u>symbolic rules</u> , including <u>recursive notation</u> ST MA 4 1.6, 3.6 FR VIII.4.b	Student Edition: 6-10, 33-38, 40-44, 249-252, 372 #28-29 <i>Algebra Activity</i> 39, 253, 368, 386 <i>Graphing Calculator Investigation</i> 45 Teacher Resources: <i>Enrichment</i> 274
C. Classify objects and representations	
compare and contrast various forms of <u>representations</u> of patterns ST MA 4 1.6 FR VIII.3.b	Student Edition: 6-10, 249-252, 393-397, 630-633 <i>Algebra Activity</i> 386, 392 <i>Graphing Calculator Investigation</i> 402-403 Teacher Wraparound Edition: DI 8 Teacher Resources: <i>Enrichment</i> 5, 691
D. Identify and compare functions	
compare <u>properties of linear functions</u> between or among tables, graphs and equations ST MA 4 1.6, 3.6 FR VIII.b & c	Student Edition: 381-385, 389 Ex 6, 391 #26-27, 394 Ex 2 <i>Algebra Activity</i> 368, 386, 392 <i>Graphing Calculator Investigation</i> 374, 402-403
E. Describe the effects of parameter changes	

STANDARDS	PAGE REFERENCES
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 relationships, including <u>recursive</u> relationships</p> <p>ST MA 4 1.6, 3.1 FR VIII.2.e</p>	<p>Student Edition: 110-114, 115-119, 120-124, 126-130, 298-302, 355-359</p> <p><i>Algebra Activity</i> 108-109 <i>Reading Mathematics</i> 125</p> <p>Teacher Wraparound Edition: TT 121</p> <p>Teacher Resources: <i>Enrichment</i> 126</p>
B. Describe and use mathematical manipulation	
<p>generate equivalent forms for linear expressions</p> <p>ST MA 4 3.6 FR VIII.a</p>	<p>Student Edition: 23-27, 98-102, 103-107</p> <p>Teacher Resources: <i>Enrichment</i> 20, 116, 121 <i>Practice</i> 109 <i>Reading to Learn Mathematics</i> 115 <i>Skills Practice</i> 108 <i>Study Guide and Intervention</i> 107</p>
C. Utilize equivalent forms	
D. Utilize systems	
3. Use mathematical models to represent and understand quantitative relationships	
A. Use mathematical models	
<p><u>model</u> and solve problems, using multiple representations such as graphs, tables, equations or inequalities</p> <p>ST MA 4 1.6, 3.6 FR VIII.b</p>	<p>Student Edition: 393-397, 404-408, 414-418</p> <p><i>Algebra Activity</i> 62-63, 108-109, 328-329 <i>Reading Mathematics</i> 125, 339</p> <p>Teacher Resources: <i>Enrichment</i> 239, 381</p>

STANDARDS	PAGE REFERENCES
<p>4. Analyze change in various contexts</p> <hr/> <p>A. Analyze change</p>	
<p>analyze the nature of changes (including slope and intercepts) in quantities in linear relationships ST MA 2, 4 1.6, 4.1 FR VI.I, VIII.c</p>	<p>Student Edition: 387-391, 393-397 <i>Algebra Activity</i> 386, 392 <i>Graphing Calculator Investigation</i> 402-403 Teacher Wraparound Edition: DI 395; OEA 391, 397; UM 394 Teacher Resources: <i>Enrichment</i> 431, 436</p>
<p>Geometric and Spatial Relationships</p> <hr/> <p>1. Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships</p> <hr/> <p>A. Describe and use geometric relationships</p>	
<p>describe, classify and generalize relationships between and among types of a) 2-dimensional objects and b) 3-dimensional objects using their defining <u>properties</u> including</p> <ul style="list-style-type: none"> ▶ Pythagorean Theorem ▶ <u>cross-section</u> of a 3-dimensional object results in what 2-dimensional shape <p>ST MA 2 1.6, 3.6 FR VI.c</p>	<p>Student Edition: 453-457, 460-464, 471-475, 477-481, 513-517, 527-531, 556-561 <i>Algebra Activity</i> 458-459, 476 <i>Graphing Calculator Investigation</i> 482</p>
<p>B. Apply geometric relationships</p>	
<p>apply relationships between the <u>corresponding sides</u> and <u>corresponding areas</u> of <u>similar polygons</u> to solve problems ST MA 2 1.6, 3.6 FR VI.c</p>	<p>Student Edition: 471-475, 477-481, 525 #33, 584-588 <i>Algebra Activity</i> 476 Teacher Wraparound Edition: DI 473; UM 472 Teacher Resources: <i>Enrichment</i> 523 <i>Reading to Learn Mathematics</i> 522 <i>Study Guide and Intervention</i> 519</p>

STANDARDS	PAGE REFERENCES
C. Compose and decompose shapes	
2. Specify locations and describe spatial relationships using coordinate geometry and other representational systems	
A. Use coordinate systems	
use coordinate geometry to analyze <u>properties of right triangles</u> and quadrilaterals ST MA 2 3.6 FR VI.f	Student Edition: 466-470 Teacher Resources: <i>Enrichment 518</i>
3. Apply transformations and use symmetry to analyze mathematical situations	
A. Use transformations on objects	
reposition shapes under <u>formal</u> transformations, such as reflection, rotation and translation ST MA 2 3.6 FR VI.b	Student Edition: 506-511 <i>Algebra Activity 512</i> Teacher Wraparound Edition: DI 508, 528, 532 Teacher Resources: <i>Enrichment 446, 563</i> <i>Practice 561</i> <i>Skills Practice 560</i> <i>Study Guide and Intervention 559</i>
B. Use transformations on functions	
describe the relationship between the scale factor and the area of the image using a <u>dilation</u> (stretching/shrinking) ST MA 2 3.6 FR VI.b & g	Student Edition: 525 #33, 537 #35, 584-588
C. Use symmetry	
identify the number of rotational symmetries of regular polygons ST MA 2 1.6 FR VI.b	Student Edition: <i>Algebra Activity 505</i>
4. Use visualization, spatial reasoning and geometric modeling to solve problems	
A. Recognize and draw three-dimensional representations	
create <u>isometric drawings</u> from a given <u>net plan</u> ST MA 2 3.3 FR VI.a	Student Edition: <i>Geometry Activity 554</i>

STANDARDS	PAGE REFERENCES
B. Draw and use visual models	
draw or use <u>visual models</u> to represent and solve problems ST MA 2 3.1 FR VI.d	Student Edition: 103-107, 164, 210, 281 <i>Algebra Activity</i> 62-63, 108-109, 286-287, 328-329, 368 Teacher Resources: <i>Enrichment</i> 239
Measurement	
1. Understand measurable attributes of objects and the units, systems and processes of measurement	
A. Determine unit of measurement	
B. Identify equivalent measures	
identify the equivalent volume measures within a system of measurement (e.g., m^3 to cm^3) ST MA 2 1.6 FR VI.i	This objective could be integrated into Student Edition: Chapter 11
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	
use tools to determine the measure of <u>reflex</u> angles to the nearest degree ST MA 2 1.4, 3.2 FR VI.f	This objective could be integrated into Student Edition: 447-451
C. Apply geometric measurements	
describe how to solve problems involving surface area and/or volume of a rectangular or triangular prism, or cylinder ST MA 2 3.4, 4.1 FR VI.i & g	Student Edition: 563-567, 568-572, 573-577, 578-582 <i>Geometry Activity</i> 562 Teacher Wraparound Edition: DI 580 Teacher Resources: <i>Reading to Learn Mathematics</i> 617, 622, 627, 632

STANDARDS	PAGE REFERENCES
D. Analyze precision	
analyze <u>precision</u> and accuracy in measurement situations and determine number of significant digits ST MA 2 1.7, 3.8 FR VI.f	Student Edition: 590-594 <i>Reading Mathematics</i> 589 Teacher Wraparound Edition: OEA 594 Teacher Resources: <i>Practice</i> 641 <i>Reading to Learn Mathematics</i> 642 <i>Skills Practice</i> 640 <i>Study Guide and Intervention</i> 639
E. Use relationships within a measurement system	
convert square or cubic units to equivalent square or cubic units within the same system of measurement ST MA 2 1.6, 1.10 FR VI.e & f	Student Edition: 566 #23-#25, 567 #27, #28
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 questions, design studies and collect data about a characteristic ST MA 3 1.2 FR VII.a	Student Edition: 43 #20, 610 #26-27 <i>Algebra Activity</i> 39, 180, 237, 275, 386, 392, 640 <i>Graphing Calculator Investigation</i> 46 #9
B. Classify and organize data	
C. Represent and interpret data	
select, create and use appropriate graphical representation of data (including <u>scatter plots</u>) ST MA 3 1.8, 3.6	Student Edition: 40-44, 606-611, 617-621, 623-628 <i>Algebra Activity</i> 39 <i>Graphing Calculator Investigation</i> 45-46, 622, 629 Teacher Resources: <i>Reading to Learn Mathematics</i> 34 <i>Study Guide and Intervention</i> 31

STANDARDS	PAGE REFERENCES
<p>2. Select and use appropriate statistical methods to analyze data</p> <hr/>	
<p>A. Describe and analyze data</p>	
<p>find, use and interpret <u>measures of center</u>, <u>outliers</u> and <u>spread</u>, including <u>range</u> and <u>interquartile range</u> ST MA 3 3.4 FR VII.c</p>	<p>Student Edition: 238-242, 612-616 <i>Algebra Activity</i> 237 <i>Graphing Calculator Investigation</i> 243 Teacher Resources: <i>Enrichment</i> 264, 676 <i>Practice</i> 262 <i>Reading to Learn Mathematics</i> 263 <i>Skills Practice</i> 261 <i>Study Guide and Intervention</i> 260</p>
<p>B. Compare data representations</p>	
<p>compare different representations of the same data and evaluate how well each representation shows important aspects of the data ST MA 3 3.6 FR VII.d</p>	<p>Student Edition: 623-628, 630-633 Teacher Wraparound Edition: OEA 633 Teacher Resources: <i>Enrichment</i> 691 <i>Practice</i> 689 <i>Reading to Learn Mathematics</i> 690 <i>Skills Practice</i> 688 <i>Study Guide and Intervention</i> 687</p>
<p>C. Represent data algebraically</p>	
<p>3. Develop and evaluate inferences and predictions that are based on data</p> <hr/>	
<p>A. Develop and evaluate inferences</p>	
<p>make <u>conjectures</u> about possible relationships between 2 characteristics of a sample on the basis of scatter plots of the data and approximate lines to fit ST MA 3 3.5 FR VII.e</p>	<p>Student Edition: 40-44, 107 #64, 409-413 <i>Algebra Activity</i> 39 <i>Graphing Calculator Investigation</i> 45-46 Teacher Resources: <i>Enrichment</i> 35 <i>Practice</i> 33 <i>Reading to Learn Mathematics</i> 34 <i>Skills Practice</i> 32 <i>Study Guide and Intervention</i> 31</p>

STANDARDS	PAGE REFERENCES
B. Analyze basic statistical techniques	
4. Understand and apply basic concepts of probability	
A. Apply basic concepts of probability	
<p>make <u>conjectures</u> (based on theoretical probability) about the results of experiments</p> <p>ST MA 3 3.5</p> <p>FR VII.g</p>	<p>Student Edition: 310-314, 646-649, 650-655 <i>Algebra Activity</i> 656-657 <i>Graphing Calculator Investigation</i> 315</p> <p>Teacher Resources: <i>Practice</i> 340, 704 <i>Reading to Learn Mathematics</i> 342, 710 <i>Study Guide and Intervention</i> 339</p>
B. Use and describe compound events	