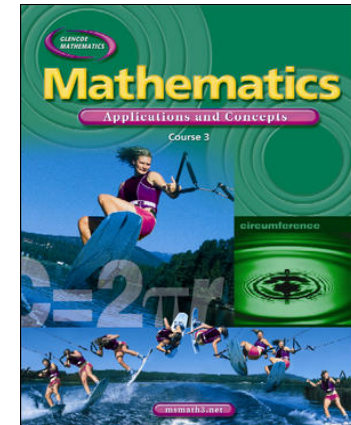
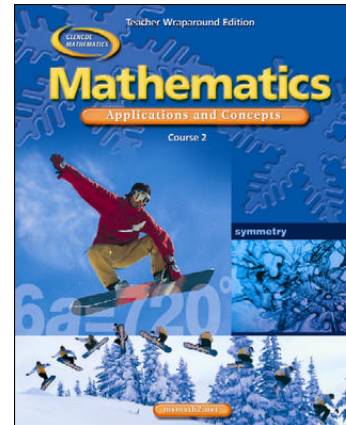
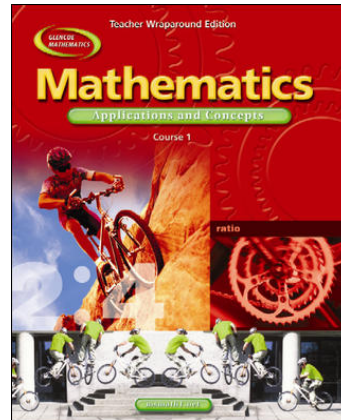


# Mathematics

## Applications and Concepts

### Courses 1, 2, 3

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#### STANDARDS

#### PAGE REFERENCES

#### Standard A—Mathematical Processes

#### By the end of grade eight, students will:

##### A.8.1 Use reasoning abilities to:

- evaluate information
- perceive patterns
- identify relationships
- formulate questions for further exploration
- evaluate strategies
- justify statements
- test reasonableness of results
- defend work

##### Student Edition:

6-9, 10-13, 66-69, 282-284  
*Hands-on Lab* 360-361  
*Practice Test* 287 #22-#24  
*Problem-Solving Strategy* 280-281  
*Study Guide and Review*  
 286 #33-#36

##### Teacher Wraparound Edition:

A 9, 13, 69, 284; B 6, 66, 282;  
 DI 11, 282; I-CE 67, 283

##### Student Edition:

6-9, 34-37, 51 #17, 79 #23,  
 88 #15, 95 #14, 136 #45,  
 199 #36-#38, 213 #46, 321 #24  
*Hands-on Lab* 37, 176, 344  
*Problem-Solving Strategy* 22-23,  
 132-133, 164-165, 201-202,  
 252-253, 338-339, 444-445  
*Web Quest* 3, 103, 193, 285

##### Teacher Wraparound Edition:

A 133, 445; B 14, 22, 34; DI 7

##### Student Edition:

6-10, 59 #18, 98-101, 151 #16,  
 430-433, 463 #17, #18, 512-515  
*Hands-on Lab* 141, 183, 278, 516  
*Problem-Solving Strategy* 43-44,  
 96-97, 226-227, 276-277, 488-489  
*Spreadsheet Investigation* 165  
*Web Quest* 3, 153, 371

##### Teacher Wraparound Edition:

A 10, 169, 445; DI 68, 167, 276;  
 PS 149, 555; TNT 327

STANDARDS		PAGE REFERENCES	
<p>A.8.1 Use reasoning abilities to:</p> <ul style="list-style-type: none"> <li>• evaluate information</li> <li>• perceive patterns</li> <li>• identify relationships</li> <li>• formulate questions for further exploration</li> <li>• evaluate strategies</li> <li>• justify statements</li> <li>• test reasonableness of results</li> <li>• defend work</li> </ul>	<p><b>Teacher Resources:</b>  <i>Chapter 1 Resource Masters 1, 3</i>  <i>Chapter 7 Resource Master 352, 353</i></p>	<p><b>Teacher Resources:</b>  <i>Chapter 1 Resource Master 1-5</i>  <i>Noteables Interactive Study Notebook with Foldables 4, 5, 25</i></p>	<p><b>Teacher Resources:</b>  <i>Chapter 1 Resource Masters 1-5</i>  <i>Chapter 11 Resource Masters 621, 622</i>  <i>Noteables Interactive Study Notebook with Foldables 4, 5, 280-282</i></p>
<p>A.8.2 Communicate logical arguments clearly to show why a result makes sense</p>	<p><b>Student Edition:</b>          6-9, 24-27, 124 #38-#39, 221 #31-#35, 497 #37  <i>Problem-Solving Strategy 156-157, 280-281</i>  <b>Teacher Wraparound Edition:</b>          A 9; DI 142  <b>Teacher Resources:</b>  <i>Chapter 1 Resource Masters 21, 22, 23</i></p>	<p><b>Student Edition:</b>          60-63, 199 #36-#38, 321 #24  <i>Hands-on Lab 344</i>  <i>Problem-Solving Strategy 22-23, 164-165, 201-202, 252-253, 338-339</i>  <i>Web Quest 193, 285</i>  <b>Teacher Wraparound Edition:</b>          B 6, 164; DI 15</p>	<p><b>Student Edition:</b>          6-10, 151 #16, 251 #16, 339 #30, 430-433, 557 #17  <i>Hands-on Lab 183, 261</i>  <i>Problem-Solving Strategy 43-44, 276-277, 488-489</i>  <i>Web Quest 3, 153, 371, 457</i>  <b>Teacher Wraparound Edition:</b>          A 10, 169, 383, 429, 445; DI 7, 206, 276; PS 149, 249, 367; TNT 207  <b>Teacher Resources:</b>  <i>Chapter 1 Resource Masters 1-5</i>  <i>Chapter 9 Resource Masters 511, 513</i>  <i>Noteables Interactive Study Notebook with Foldables 231, 232</i></p>

STANDARDS	PAGE REFERENCES		
<p>A.8.3 Analyze non-routine* problems by modeling*, illustrating, guessing, simplifying, generalizing, shifting to another point of view, etc.</p>	<p><b>Student Edition:</b> 121-124, 135-138, 141-143, 144-147, 152-155 <i>The Game Zone</i> 149 <i>Hands-on Lab</i> 134, 139-140, 150-151 <i>Mid-Chapter Practice Test</i> 148 <i>Practice Test</i> 129 #22-#24 <i>Study Guide and Review</i> 128 #28-#32</p> <p><b>Teacher Wraparound Edition:</b> A 123, 143, 147; B 121; I-CE 122, 142</p> <p><b>Teacher Resources:</b> <i>Chapter 3 Resource Masters</i> 145 <i>Chapter 4 Resource Masters</i> 171, 181, 186</p>	<p><b>Student Edition:</b> 95 #14, 199 #36-#38 <i>Hands-on Lab</i> 37, 344 <i>Problem-Solving Strategy</i> 22-23, 132-133, 201-202, 252-253, 338-339, 444-445 <i>Study Skill</i> 153 <i>Web Quest</i> 3, 103, 153, 285</p> <p><b>Teacher Wraparound Edition:</b> A 111, 231; B 22; PS 235; UM 52G</p>	<p><b>Student Edition:</b> 59 #18, 113 #20, 187 #21, 197 #23, #24, 289 #20, 299 #12, 451, 469-473, 516, 588 <i>Hands-on Lab</i> 434 <i>Problem-Solving Strategy</i> 226-227, 276-277, 324-325, 488-489, 588-589 <i>Web Quest</i> 3, 153, 371</p> <p><b>Teacher Wraparound Edition:</b> DI 63, 189, 229, 257, 348; PS 555, 593</p> <p><b>Teacher Resources:</b> <i>Chapter 1 Resource Masters</i> 1-5 <i>Chapter 2 Resource Masters</i> 106, 125 <i>Chapter 10 Resource Masters</i> 565 <i>Noteables Interactive Study Notebook with Foldables</i> 253-255, 273</p>
<p>A.8.4 Develop effective oral and written presentations that include</p> <ul style="list-style-type: none"> <li>• appropriate use of technology</li> <li>• the conventions of mathematical discourse (e.g., symbols, definitions, labeled drawings)</li> <li>• mathematical language</li> <li>• clear organization of ideas and procedures</li> <li>• understanding of purpose and audience</li> </ul>	<p><b>Student Edition:</b> 6-9, 66-69, 86-89 <i>Standardized Test Practice</i> 95 #14-#15</p> <p><b>Teacher Wraparound Edition:</b> A 9, 37, 69, 89, 157, 193; B 6, 194; DI 568; I-CE 87-88</p> <p><b>Teacher Resources:</b> <i>Chapter 1 Resource Masters</i> 1 <i>Chapter 2 Resource Masters</i> 78, 96, 98</p>	<p><b>Student Edition:</b> 41 #42, 79 #23, 213 #46 <i>Hands-on Lab</i> 73, 176, 344 <i>Spreadsheet Investigation</i> 90-91, 309, 361 <i>Web Quest</i> 3, 103, 193, 285</p> <p><b>Teacher Wraparound Edition:</b> A 17, 91, 235, 273; DI 113; PS 507</p>	<p><b>Student Edition:</b> 6-10 <i>Hands-on Lab</i> 22, 141, 183 <i>Study Skill</i> 16, 81, 295 <i>Web Quest</i> 3, 153, 253, 371</p> <p><b>Teacher Wraparound Edition:</b> A 42, 97, 295, 583; DI 24, 276, 537; ICS 204D, 416 D; PC 60F, 114F, 372F; TNT 408; WMGD 152, 252</p>

STANDARDS		PAGE REFERENCES	
<p>A.8.5 Explain mathematical concepts, procedures, and ideas to others who may not be familiar with them</p>	<p><b>Student Edition:</b>  <i>Standardized Test Practice</i> 47, 95  <b>Teacher Wraparound Edition:</b>  A 9, 17, 37, 41; B 6; DI 25, 36</p>	<p><b>Student Edition:</b>  <i>Problem-Solving Strategy</i> 58-59, 164-165, 338-339, 444-445  <i>Web Quest</i> 103, 285  <b>Teacher Wraparound Edition:</b>  A 211; B 220; DI 15, 19, 211; MIC 193; PS 189, 235; TNT 204</p>	<p><b>Student Edition:</b>  <i>StudySkill</i> 295  <i>Web Quest</i> 3, 153, 371  <b>Teacher Wraparound Edition:</b>  A 81, 209, 295, 481; B 96; DI 40, 89, 126, 233; PT 204G; TNT 19, 40, 138, 207</p>
<p>A.8.6 Read and understand mathematical texts and other instructional materials and recognize mathematical ideas as they appear in other contexts</p>	<p><b>Student Edition:</b>  4, 6-9, 48, 50-53, 62-65, 66-69, 72-75, 86-89  <i>Interdisciplinary Project</i> 3, 97  <b>Teacher Wraparound Edition:</b>  I-CE 7-8, 51-52  <b>Teacher Resources:</b>  <i>Chapter 1 Resource Masters</i> 1, 2, 3</p>	<p><b>Student Edition:</b>  <i>Web Quest</i> 3, 103  <b>Teacher Wraparound Edition:</b>  B 106; DI 109, 129; ICS 194D, 286D; MIC 193  <b>Teacher Resources:</b>  <i>Chapter 1 Resource Masters</i> 20  <i>Chapter 5 Resource Masters</i> 272  <i>Chapter 7 Resource Masters</i> 379, 404</p>	<p><b>Student Edition:</b>  <i>StudySkill</i> 16  <i>Web Quest</i> 3, 153, 253, 371  <b>Teacher Wraparound Edition:</b>  B 28, 216, 236, 262; DI 315; Mmedia 60C; Myes! 60D; PC 114F, 154F; PS 309; TNT 40, 186; TT 312D, 372D</p>

## STANDARDS

## PAGE REFERENCES

## Standard B—Number Operations and Relationships

## By the end of grade eight, students will:

<p>B.8.1 Read, represent, and interpret various rational numbers* (whole numbers*, integers*, decimals, fractions, and percents) with verbal descriptions, geometric models*, and mathematical notation (e.g., expanded*, scientific*, exponential*)</p>	<p><b>Student Edition:</b> 102-105, 136-138, 182-185, 293-298, 395-397 <i>Hands-on Lab</i> 181</p> <p><b>Teacher Wraparound Edition:</b> A 105; B 294; I-CE 295</p> <p><b>Teacher Resources:</b> <i>Chapter 3 Resource Masters</i> 123, 124, 125 <i>Chapter 4 Resource Masters</i> 169, 170 <i>Chapter 8 Resource Masters</i> 383, 384, 385</p>	<p><b>Student Edition:</b> 10-13, 43-45, 100 #3, 106-108, 207-209, 210-213, 216-219, 220-223, 229, 470-473 <i>Hands-on Lab</i> 196, 322 <i>Web Quest</i> 3, 103</p> <p><b>Teacher Wraparound Edition:</b> A 45, 108; DI 43; PC 332F; PS 235</p> <p><b>Teacher Resources:</b> <i>Chapter 1 Resource Masters</i> 6-9, 38, 39 <i>Chapter 3 Resource Masters</i> 129-132 <i>Chapter 5 Resource Masters</i> 258-261, 263-266, 268-271 <i>Noteables Interactive Study Notebook with Foldables</i> 6, 7, 23, 24, 64, 65, 115, 116, 117-119, 120-121, 122-124</p>	<p><b>Student Edition:</b> 17, 31 #48, 62-66, 85 #34, 98-101, 104-107, 112 #4, #9, 113 #13, #14, 116-119, 125-129, 130 #18-#23, 206-209, 210-214, 224 #19, #20, 415 #8 <i>StudySkill</i> 16, 215 <i>Web Quest</i> 3</p> <p><b>Teacher Wraparound Edition:</b> A 107; B 62; DI 24, 99, 211; IE 105, 207</p> <p><b>Teacher Resources:</b> <i>Chapter 1 Resource Masters</i> 12, 14 <i>Chapter 2 Resource Masters</i> 67, 107-110 <i>Chapter 3 Resource Masters</i> 144 <i>Chapter 5 Resource Masters</i> 245-248, 250-253 <i>Noteables Interactive Study Notebook with Foldables</i> 34, 35, 52, 53, 110, 111, 112, 113</p>
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STANDARDS	PAGE REFERENCES		
<p>B.8.2 Perform and explain operations on rational* numbers (add, subtract, multiply, divide, raise to a power, extract a root, take opposites and reciprocals, determine absolute value)</p>	<p><b>Student Edition:</b>  121-124, 135-138, 141-143, 144-147, 152-155, 202-205, 206-209, 228-231, 235-238, 240-242, 244-247, 261-264, 265-267, 272-275, 276-279, 400-403, 404-406  <i>Hands-on Lab</i> 134, 139, 150-151, 259-260, 270-271</p> <p><b>Teacher Wraparound Edition:</b>  A 205, 209, 406; B 202, 206; DI 203, 207, 404; I-CE 203, 207</p>	<p><b>Student Edition:</b>  14-17, 104, 106-108, 120-124, 128-131, 134-137, 138-141, 156-159, 160-163, 244-247, 248-251, 254-257, 258, 259, 264-266, 555, 559, 560, 562-563  <i>Hands-on Lab</i> 118-119, 126-127  <i>Web Quest</i> 3, 103</p> <p><b>Teacher Wraparound Edition:</b>  A 261; B 160; DI 135, 249; TNT 15, 121</p> <p><b>Teacher Resources:</b>  <i>Chapter 1 Resource Masters</i> 11-14, 129-132, 144-147, 149-152, 154-157, 160-163  <i>Chapter 4 Resource Masters</i> 190-193, 195-198  <i>Chapter 6 Resource Masters</i> 308-311, 313-316, 318-321, 328-331  <i>Noteables Interactive Study Notebook with Foldables</i> 8, 9, 64-65, 71-73, 74-78, 88-89, 90-91, 138-139, 140-141, 142-143, 146-147</p>	<p><b>Student Edition:</b>  17-21, 23-27, 28-33, 34-35, 71-75, 76-80, 82-85, 88-91, 92-94, 116-119  <i>Hands-on MiniLab</i> 28, 71  <i>Web Quest</i> 3</p> <p><b>Teacher Wraparound Edition:</b>  A 31, 80, 85; B 23, 28; DI 18, 29, 72; IE 77; NS 9, 79; PS 57, 111</p> <p><b>Teacher Resources:</b>  <i>Chapter 1 Resource Masters</i> 11-14, 16-19, 21-23, 26-29  <i>Chapter 2 Resource Masters</i> 77-80, 85, 87-90, 92-95  <i>Chapter 3 Resource Masters</i> 133-136  <i>Noteables Interactive Study Notebook with Foldables</i> 12-20, 39-43, 44-47, 62, 63</p>

STANDARDS		PAGE REFERENCES	
<p>B.8.3 Generate and explain equivalencies among fractions, decimals, and percents</p>	<p><b>Student Edition:</b> 202-205, 206-209, 400-403, 404-406</p> <p><i>Study Guide and Review</i> 212 #42-#57</p> <p><b>Teacher Wraparound Edition:</b> A 205, 209, 406; B 202, 206; DI 203, 207, 404; I-CE 203, 207</p> <p><b>Teacher Resources:</b> <i>Chapter 5 Resource Masters</i> 246, 247, 248, 251, 252, 253 <i>Chapter 10 Resource Masters</i> 511, 512, 513, 516, 517, 518</p>	<p><b>Student Edition:</b> 210-213, 216-219, 220-223, 234, 237 #19, 312-315, 556</p> <p><i>Web Quest</i> 193</p> <p><b>Teacher Wraparound Edition:</b> A 219; DI 211; PS 235</p> <p><b>Teacher Resources:</b> <i>Chapter 5 Resource Masters</i> 258-261, 263-266, 268-271, 298 <i>Chapter 7 Resource Masters</i> 395-398 <i>Noteables Interactive Study Notebook with Foldables</i> 117-119, 120-121, 122-123, 124, 171, 172</p>	<p><b>Student Edition:</b> 62-66, 112 #4, 150 #3, 206-209, 210-214</p> <p><i>The Game Zone</i> 225</p> <p><i>Web Quest</i> 3</p> <p><b>Teacher Wraparound Edition:</b> A 66, 214; B 228; DI 171, 211; IE 63, 211; PC 204F ; TNT 211</p> <p><b>Teacher Resources:</b> <i>Chapter 2 Resource Masters</i> 67-70 <i>Chapter 5 Resource Masters</i> 245-248, 250-253 <i>Noteables Interactive Study Notebook with Foldables</i> 34, 35, 110-111, 112-114</p>
<p>B.8.4 Express order relationships among rational numbers using appropriate symbols (<math>&gt;</math>, <math>&lt;</math>, <math>\geq</math>, <math>\leq</math>, <math>\neq</math>)</p>	<p><b>Student Edition:</b> 108-110, 113 #30-#32, 198-201, 205 #37-#40, 209 #34-#38</p> <p><i>The Game Zone</i> 115</p> <p><b>Teacher Wraparound Edition:</b> A 110, 201; B 108; DI 108, 199; I-CE 109, 199</p> <p><b>Teacher Resources:</b> <i>Chapter 3 Resource Masters</i> 128, 129, 130 <i>Chapter 5 Resource Masters</i> 241, 242, 243</p>	<p><b>Student Edition:</b> 109-111, 227-231, 234, 330 #5, 556</p> <p><b>Teacher Wraparound Edition:</b> A 231; DI 228</p> <p><b>Teacher Resources:</b> <i>Chapter 3 Resource Masters</i> 134-137 <i>Chapter 5 Resource Masters</i> 278-281 <i>Noteables Interactive Study Notebook with Foldables</i> 66, 67, 127, 128</p>	<p><b>Student Edition:</b> 18, 67-70, 105 #5, 112 #5, 213 #64, #65</p> <p><b>Teacher Wraparound Edition:</b> A 70; DI 68; IE 68; NS 69</p> <p><b>Teacher Resources:</b> <i>Chapter 2 Resource Masters</i> 72-75 <i>Noteables Interactive Study Notebook with Foldables</i> 37, 38</p>

STANDARDS	PAGE REFERENCES		
<p>B.8.5 Apply proportional thinking in a variety of problem situations that include, but are not limited to</p> <ul style="list-style-type: none"> <li>ratios and proportions (e.g., rates, scale drawings*, similarity*)</li> <li>percents, including those greater than 100 and less than one (e.g., discounts, rate of increase or decrease, sales tax)</li> </ul>	<p><b>Student Edition:</b> 386-389, 391-393, 397 #29-#31, 404-406, 409-412</p> <p><i>Mid-Practice Test</i> 398 #7-#10</p> <p><i>Spreadsheet Investigation</i> 390</p> <p><b>Teacher Wraparound Edition:</b> A 389; B 386; DI 387, 404; I-CE 387, 405; TNT 410</p> <p><b>Teacher Resources:</b> <i>Chapter 10 Resource Masters</i> 496, 497, 498, 501, 502, 503, 516, 517, 518, 521, 522, 523</p>	<p><b>Student Edition:</b> 231 #56, 286, 288-291, 292-295, 297-300, 304-308, 316-318, 332, 350-353, 354-357</p> <p><i>The Game Zone</i> 311</p> <p><i>Hands-on Lab</i> 301</p> <p><i>Spreadsheet Investigation</i> 309</p> <p><b>Teacher Wraparound Edition:</b> A 300, 318, 353, 357; B 354; DI 298, 317, 351; IE 289, 355</p> <p><b>Teacher Resources:</b> <i>Chapter 7 Resource Masters</i> 375-378, 380-383, 385-388, 390-394, 400-403</p> <p><i>Chapter 8 Resource Masters</i> 450-453, 455-458</p> <p><i>Noteables Interactive Study Notebook with Foldables</i> 162-163, 164-165, 166-167, 168-170, 173-174, 192-196</p>	<p><b>Student Edition:</b> 154, 156-159, 170-173, 178-183, 184-187, 188-191, 194-197, 203 #13, 204, 206-209, 216-219, 233 #4, 236-240, 249 #16, #17, 251 #16</p> <p><i>The Game Zone</i> 175</p> <p><i>Hands-on Lab</i> 183</p> <p><i>Web Quest</i> 153</p> <p><b>Note:</b> for percentages greater than 100 and less than one see Course 2 page 316</p> <p><b>Teacher Wraparound Edition:</b> A 159, 173, 240; DI 157, 179; IE 179, 180</p> <p><b>Teacher Resources:</b> <i>Chapter 4 Resource Masters</i> 185, 186, 190-193, 200-203, 205-209, 210-213, 215-218, 220-223</p> <p><i>Chapter 5 Resource Masters</i> 275-278</p> <p><i>Noteables Interactive Study Notebook with Foldables</i> 84, 85, 91-92, 93-95, 96-97, 98-100, 101-102, 110-111, 115-116, 124-126</p>

STANDARDS		PAGE REFERENCES	
<p>B.8.6 Model* and solve problems involving number-theory concepts such as</p> <ul style="list-style-type: none"> <li>• prime* and composite numbers</li> <li>• divisibility and remainders</li> <li>• greatest common factors</li> <li>• least common multiples</li> </ul>	<p><b>Student Edition:</b>  14-17, 19-21, 27 #42-#45,  177-180, 185 #42-#44,  189 #55-#62, 194-197  <i>The Game Zone</i> 23, 191  <i>Hands-on Mini-Lab</i> 18  <i>Mid-Chapter Practice Test</i>  22 #10-#13, 190 #3-#5  <i>Study Guide and Review</i>  43 #22-#23</p> <p><b>Teacher Wraparound Edition:</b>  A 179, 197; B 14; I-CE 15 #1-#2,  187, 195; TNT 178</p> <p><b>Teacher Resources:</b>  <i>Chapter 1 Resource Masters</i> 11,  12, 13  <i>Chapter 5 Resource Masters</i> 221,  222, 223, 236, 237, 238</p>	<p><b>Student Edition:</b>  197-200, 203-206, 224-226, 232,  554  <i>Hands-on Lab</i> 196  <i>The Game Zone</i> 215</p> <p><b>Teacher Wraparound Edition:</b>  A 206; DI 225; PC 194F</p> <p><b>Teacher Resources:</b>  <i>Chapter 5 Resource Masters</i>  243-246, 248-251, 273-276  <i>Noteables Interactive Study</i>  <i>Notebook with Foldables</i> 110-111,  112-114, 125-126</p>	<p><b>Student Edition:</b>  85 #45-#48, 88 #1, 89 #2, 124 #8,  608-610, 612  <i>StudySkill</i> 16</p> <p><b>Teacher Wraparound Edition:</b>  B 116</p>

STANDARDS		PAGE REFERENCES	
<p>B.8.7 In problem-solving situations, select and use appropriate computational procedures with rational numbers such as</p> <ul style="list-style-type: none"> <li>calculating mentally</li> <li>estimating</li> <li>creating, using, and explaining algorithms*</li> <li>using technology (e.g., scientific calculators, spreadsheets)</li> </ul>	<p><b>Student Edition:</b> 111-113, 116-119, 219-222, 223-225, 256-258 <i>Prerequisite Skills</i> 592-593 <i>Problem-Solving Strategy</i> 32-33, 125-126</p> <p><b>Teacher Wraparound Edition:</b> A 119, 143; B 111, 116, 223; DI 116, 136, 223; I-CE 117, 220, 224, 257</p> <p><b>Teacher Resources:</b> <i>Chapter 3 Resource Masters</i> 133, 134, 135 <i>Chapter 5 Resource Masters</i> 251, 252, 253, 277, 278, 279, 282, 283, 284</p>	<p><b>Student Edition:</b> 6-9, 33 #40, 44 #3, 50 #3, 240-243, 334-337, 471 #3, 476 #2, 558, 561 <i>Problem-Solving Strategy</i> 22-23, 444-445, 496-497 <i>Spreadsheet Investigation</i> 361</p> <p><b>Teacher Wraparound Edition:</b> A 163, 251, 273; DI 177, 211, 241</p> <p><b>Teacher Resources:</b> <i>Chapter 1 Resource Masters</i> 1-5 <i>Noteables Interactive Study Notebook with Foldables</i> 136, 137, 186, 187</p>	<p><b>Student Edition:</b> 6-9, 53 #42-#44, 117 #4, 120-122, 127 #7, 134 #3, 220-223, 228-231, 251 #15, 600 <i>Hands-on Lab</i> 183 <i>Problem-Solving Strategy</i> 43-44, 226-227, 276-277, 488-489 <i>Spreadsheet Investigation</i> 165, 245</p> <p><b>Teacher Wraparound Edition:</b> A 53; B 23; DI 7, 22, 68, 93</p> <p><b>Teacher Resources:</b> <i>Chapter 1 Resource Masters</i> 1-5 <i>Chapter 3 Resource Masters</i> 138-140 <i>Chapter 5 Resource Masters</i> 260-263, 265-268 <i>Noteables Interactive Study Notebook with Foldables</i> 4, 5, 64, 65, 117, 118, 119-121</p>

## STANDARDS

## PAGE REFERENCES

## Standard C—Geometry

## By the end of grade eight, students will:

<p>C.8.1 Describe special and complex two- and three-dimensional figures (e.g., rhombus, polyhedron, cylinder) and their component parts (e.g., base, altitude, and slant height) by:</p> <ul style="list-style-type: none"> <li>• naming, defining, and giving examples</li> <li>• comparing, sorting, and classifying them</li> <li>• identifying and contrasting their properties (e.g., symmetrical*, isosceles, regular)</li> <li>• drawing and constructing physical models to specifications</li> <li>• explaining how these figures are related to objects in the environment</li> </ul>	<p><b>Student Edition:</b> 506-509, 510-512, 522-525, 528-531 <i>Hands-on Lab</i> 526-527</p> <p><b>Teacher Wraparound Edition:</b> A 509, 527; B 506, 510, 522; DI 507; I-CE 507</p> <p><b>Teacher Resources:</b> <i>Chapter 10 Resource Masters</i> 649, 651, 654, 656, 665, 669, 670, 671</p>	<p><b>Student Edition:</b> 428-431, 434-437, 446-450, 483, 498-500, 532, 538, 551 #19 <i>The Game Zone</i> 529 <i>Hands-on Lab</i> 432-433, 512-513, 530-531 <i>Problem-Solving Strategy</i> 444-445, 518-519 <i>Spreadsheet Investigation</i> 523 <i>Study Skill</i> 474 <i>Web Quest</i> 409</p> <p><b>Teacher Wraparound Edition:</b> A 437, 450, 517; DI 434, 515; IE 429, 435, 447, 515; MIC 409; PA 435, 515; PC 510F; PS 507, 549</p> <p><b>Teacher Resources:</b> <i>Chapter 10 Resource Masters</i> 559-560, 563-566 <i>Chapter 11 Resource Masters</i> 639-642 <i>Noteables Interactive Study Notebook with Foldables</i> 236, 237, 238-239, 242, 243, 267, 268</p>	<p><b>Student Edition:</b> 262-265, 267-270, 272-275, 286-289, 290-294, 309 #8, 311 #17, 331-334, 336 <i>The Game Zone</i> 285 <i>Hands-on Lab</i> 278, 330 <i>Problem-Solving Strategy</i> 276-277 <i>Web Quest</i> 253</p> <p><b>Teacher Wraparound Edition:</b> A 275, 282, 289, 334; B 262, 267, 272, 286, 326; DI 268, 273, 331; PS 367</p> <p><b>Teacher Resources:</b> <i>Chapter 1 Resource Masters</i> 317-320, 322-325, 332-333, 392-395 <i>Chapter 7 Resource Masters</i> 392-395 <i>Noteables Interactive Study Notebook with Foldables</i> 139, 140, 141-143, 144-145, 148-149, 150-151, 172-175</p>
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STANDARDS		PAGE REFERENCES	
<p>C.8.2 Identify and use relationships among the component parts of special and complex two- and three-dimensional figures (e.g., parallel sides, congruent* faces)</p>	<p><b>Student Edition:</b> 522-525, 528-531, 534-536 <i>Hands-on Lab</i> 526-527 <b>Teacher Wraparound Edition:</b> A 527, 530; B 522; DI 529, 534 <b>Teacher Resources:</b> <i>Chapter 13 Resource Masters</i> 664, 665, 666, 674, 675, 676</p>	<p><b>Student Edition:</b> 434-437, 440-443, 514-517 <i>The Game Zone</i> 529 <i>Hands-on Lab</i> 426-427, 512-513 <i>Study Skill</i> 474 <b>Teacher Wraparound Edition:</b> A 437; DI 434, 515; PC 510F; PS 507; TNT 440 <b>Teacher Resources:</b> <i>Chapter 10 Resource Masters</i> 563-566, 568-571 <i>Chapter 12 Resource Masters</i> 669-672 <i>Noteables Interactive Study Notebook with Foldables</i> 238, 239, 240, 241, 277, 278</p>	<p><b>Student Edition:</b> 267-270, 272-275, 279-280, 309 #8-#10, 326-329, 331-334 <i>Hands-on Lab</i> 283 <i>Web Quest</i> 253 <b>Teacher Wraparound Edition:</b> A 275, 329; B 267, 326; DI 280, 281; IE 280, 332 <b>Teacher Resources:</b> <i>Chapter 6 Resource Masters</i> 317-320, 322-325, 327-330 <i>Chapter 7 Resource Masters</i> 387-389, 392-395 <i>Noteables Interactive Study Notebook with Foldables</i> 141-143, 144, 145, 146-147, 170-171, 172-174</p>
<p>C.8.3 Identify three-dimensional shapes from two-dimensional perspectives and draw two-dimensional sketches of three-dimensional objects preserving their significant features</p>	<p><b>Student Edition:</b> 544, 564-566, 575-578 <i>Hands-on Lab</i> 567, 574 <b>Teacher Wraparound Edition:</b> A 565, 574; DI 564; I-CE 565; PS 581; T 574; TNT 576 <b>Teacher Resources:</b> <i>Chapter 13 Resource Masters</i> 714, 715, 716, 724, 725, 726</p>	<p><b>Student Edition:</b> 532, 533 #2 <i>Hands-on Lab</i> 530-531 <i>Problem-Solving Strategy</i> 518-519 <b>Teacher Wraparound Edition:</b> PS 549 <b>Teacher Resources:</b> <i>Chapter 12 Resource Masters</i> 684 <i>Noteables Interactive Study Notebook with Foldables</i> 282</p>	<p><b>Student Edition:</b> 347, 348, 352, 353 <i>Hands-on Lab</i> 346 <b>Teacher Wraparound Edition:</b> DI 348; PS 367; TNT 347 <b>Teacher Resources:</b> <i>Chapter 7 Resource Masters</i> 416 <i>Noteables Interactive Study Notebook with Foldables</i> 181</p>

STANDARDS		PAGE REFERENCES	
<p>C.8.4 Perform transformations* on two-dimensional figures and describe and analyze the effects of the transformations on the figures</p>	<p><b>Student Edition:</b>  <i>Hands-on Lab</i> 532-533, 537  <b>Teacher Wraparound Edition:</b>  A 533; T 537</p>	<p><b>Student Edition:</b>  451-454, 456-459, 467 #17, #18, 509 #14, 551 #15  <i>Hands-on Lab</i> 460-461  <i>Spreadsheet Investigation</i> 455  <b>Teacher Wraparound Edition:</b>  DI 451, 456; IE 452, 457  <b>Teacher Resources:</b>  <i>Chapter 10 Resource Masters</i> 578-581, 583-586  <i>Noteables Interactive Study Notebook with Foldables</i> 244-245, 246-248</p>	<p><b>Student Edition:</b>  194-197, 290-294, 296-299, 300-303, 311 #17  <i>Hands-on Lab</i> 304-305  <b>Teacher Wraparound Edition:</b>  A 294; B 290; DI 195; IE 291, 297, 301; PS 309  <b>Teacher Resources:</b>  <i>Chapter 6 Resource Masters</i> 337-340, 342-345, 347-350  <i>Noteables Interactive Study Notebook with Foldables</i> 150-152, 153-154, 155-157, 161</p>
<p>C.8.5 Locate objects using the rectangular coordinate system*</p>	<p><b>Student Edition:</b>  320-323, 336 #48  <i>Practice Test</i> 327 #21-#24  <i>Study Guide and Review</i> 326 #66-#73  <i>Standardized Test Practice</i> 329 #17-#20  <b>Teacher Wraparound Edition:</b>  A 323; B 320; I-CE 321-322</p>	<p><b>Student Edition:</b>  451-454, 457, 467 #18, 509 #14, 551 #15  <i>Hands-on Lab</i> 460-461  <b>Teacher Wraparound Edition:</b>  B 451; IE 452  <b>Teacher Resources:</b>  <i>Chapter 10 Resource Masters</i> 578, 579  <i>Noteables Interactive Study Notebook with Foldables</i> 244-245</p>	<p><b>Student Edition:</b>  194-197, 290-294, 296-299, 300-303, 311 #17  <i>Hands-on Lab</i> 304-305  <b>Teacher Wraparound Edition:</b>  A 299, 303; IE 195, 291, 297, 301  <b>Teacher Resources:</b>  <i>Chapter 4 Resource Masters</i> 220-224  <i>Chapter 6 Resource Masters</i> 337-340, 342-345, 347-350</p>

STANDARDS		PAGE REFERENCES	
Standard D—Measurement			
By the end of grade eight, students will:			
D.8.1 Identify and describe attributes* in situations where they are not directly* or easily measurable (e.g., distance, area of an irregular figure, likelihood of occurrence)	<p><b>Student Edition:</b> 428-431 <i>Hands-on Lab</i> 480-481 <i>Problem-Solving Strategy</i> 488-489</p> <p><b>Teacher Wraparound Edition:</b> B 428; DI 429, I-CE 429</p> <p><b>Teacher Resources:</b> Chapter 11 Resource Masters 551, 552, 553</p>	<p><b>Student Edition:</b> 4, 19 #5, 129 #6, 148 #3, 162 #29, 173 #7, 191 #20, 285, 295 #23, #24, 431 #24, 441, 498-500, 526 #27</p> <p><i>Hands-on Lab</i> 344 <i>Problem-Solving Strategy</i> 133 #9 <i>Web Quest</i> 3, 193</p> <p><b>Teacher Wraparound Edition:</b> B 292; DI 113; IE 19, 499</p> <p><b>Teacher Resources:</b> <i>Chapter 11 Resource Masters</i> 639-642 <i>Noteables Interactive Study Notebook with Foldables</i> 267, 268</p>	<p><b>Student Edition:</b> 73 #5, 187 #24, 188-191, 326-329</p> <p><b>Teacher Wraparound Edition:</b> A 191; DI 326, 359; IE 93, 189</p> <p><b>Teacher Resources:</b> <i>Chapter 4 Resource Masters</i> 215-219 <i>Chapter 7 Resource Masters</i> 387-390 <i>Noteables Interactive Study Notebook with Foldables</i> 98, 99, 170, 171</p>

STANDARDS	PAGE REFERENCES		
<p>D.8.2 Demonstrate understanding of basic measurement facts, principles, and techniques including the following</p> <ul style="list-style-type: none"> <li>approximate comparisons between metric and US Customary units (e.g., a liter and a quart are about the same; a kilometer is about six-tenths of a mile)</li> <li>knowledge that direct measurement* produces approximate, not exact, measures</li> <li>the use of smaller units to produce more precise measures</li> </ul>	<p><b>Student Edition:</b> 465-468, 470-473, 476-479, 484-487, 490-493 <i>The Game Zone</i> 483 <i>Hands-on Lab</i> 474-475 <b>Teacher Wraparound Edition:</b> A 468, 473; B 465; DI 471 <b>Teacher Resources:</b> <i>Chapter 12 Resource Masters</i> 599, 600, 601, 604, 605, 606</p>	<p><b>Student Edition:</b> 139 #4, 140 #34, 161 #3, 169 #40, #41, 273 #27, 542-545 <i>Web Quest</i> 3, 193 <b>Teacher Wraparound Edition:</b> DI 139, 267, 543 <b>Teacher Resources:</b> <i>Chapter 12 Resource Masters</i> 694-697 <i>Noteables Interactive Study Notebook with Foldables</i> 287, 288</p>	<p><b>Student Edition:</b> 15 #41, #42, 27 #52, 52 #36-#39, 75 #29, 107 #37-#40, 122 #35, 129 #49, #50, 169 #20, 173 #39-#42, 338 #27-#29, 358-362, 604-607, 669 #17, 689-691 <i>Problem-Solving Strategy</i> 226-227 <i>Web Quest</i> 253 <b>Teacher Wraparound Edition:</b> A 95 <b>Teacher Resources:</b> <i>Chapter 7 Resource Masters</i> 417-420 <i>Noteables Interactive Study Notebook with Foldables</i> 185-187</p>

STANDARDS		PAGE REFERENCES	
<p>D.8.3 Determine measurement directly* using standard units (metric and US Customary) with these suggested degrees of accuracy</p> <ul style="list-style-type: none"> <li>lengths to the nearest mm or 1/16 of an inch</li> <li>weight (mass) to the nearest 0.1 g or 0.5 ounce</li> <li>liquid capacity to the nearest ml</li> <li>angles to the nearest degree</li> <li>temperature to the nearest C or F</li> <li>elapsed time to the nearest second</li> </ul>	<p><b>Student Edition:</b> 465-468, 470-473, 476-479, 484-487, 490-493, 494-497 <i>Hands-on Lab</i> 474-475 <i>Mid-Chapter Practice Test</i> 482 #3-#17</p> <p><b>Teacher Wraparound Edition:</b> A 473, 479, 493; B 470; I-CE 466, 471</p> <p><b>Teacher Resources:</b> <i>Chapter 12 Resource Masters</i> 599, 600, 601, 604, 605, 606, 609, 610, 611, 614, 615, 616, 619, 620, 621</p>	<p><b>Student Edition:</b> 38-41, 139 #4, 140 #34, 169 #40, #41, 206 #47, 267-269, 331 #17, 343 #37, 542-545 <i>Hands-on Lab</i> 301, 412 <i>Web Quest</i> 193</p> <p><b>Teacher Wraparound Edition:</b> DI 543</p> <p><b>Teacher Resources:</b> <i>Chapter 1 Resource Masters</i> 36-40 <i>Chapter 6 Resource Masters</i> 333-336 <i>Chapter 12 Resource Masters</i> 694-697 <i>Noteables Interactive Study Notebook with Foldables</i> 20-22, 148-150, 228-229</p>	<p><b>Student Edition:</b> 107 #37-#40, 145 #23, 186 #15, 256-260, 265 #36-#39, 358-362, 520 #28, 654 #14, #15, 673 #14 <i>Problem-Solving Strategy</i> 97 #6</p> <p><b>Teacher Wraparound Edition:</b> A 95; B 67; DI 237</p> <p><b>Teacher Resources:</b> <i>Chapter 6 Resource Masters</i> 307-309 <i>Chapter 7 Resource Masters</i> 417-420 <i>Noteables Interactive Study Notebook with Foldables</i> 136-139, 185-187</p>

STANDARDS	PAGE REFERENCES		
<p>D.8.4 Determine measurements indirectly* using</p> <ul style="list-style-type: none"> <li>estimation</li> <li>conversion of units within a system (e.g., quarts to cups, millimeters to centimeters)</li> <li>ratio and proportion (e.g., similarity*, scale drawings*)</li> <li>geometric formulas to derive lengths, areas, volumes of common figures (e.g., perimeter, circumference, surface area)</li> <li>the Pythagorean* relationship</li> <li>geometric relationships and properties for angle size (e.g., parallel lines and transversals; sum of angles of a triangle; vertical angles*)</li> </ul>	<p><b>Student Edition:</b> 39-41, 158-160, 380-383, 386-389, 391-393, 465-468, 470-473, 476-479, 484-487, 490-493, 570-573 <i>Hands-on Lab</i> 464 <i>Problem-Solving Strategy</i> 488-489 <i>Spreadsheet Investigation</i> 390, 469</p> <p><b>Teacher Wraparound Edition:</b> B 39; DI 40, 162</p> <p><b>Teacher Resources:</b> <i>Chapter 10 Resource Masters</i> 491, 492, 493, 501, 502, 503</p>	<p><b>Student Edition:</b> 38-41, 243 #37, #38, 261 #37, 267-269, 270-273, 275-277, 282 #4, 288-291, 300 #54-#56, 304-308, 331 #18, 422-425, 440-443, 479-482, 483-485, 489-492, 532-535 <i>Hands-on Lab</i> 274, 426-427, 478, 488 <i>Problem-Solving Strategy</i> 253 #10, 338-339 <i>Spreadsheet Investigation</i> 309</p> <p><b>Teacher Wraparound Edition:</b> A 482, 545; B 38, 267, 542; DI 39, 267; PS 281, 329, 507</p> <p><b>Teacher Resources:</b> <i>Chapter 1 Resource Masters</i> 36-40 <i>Chapter 6 Resource Masters</i> 333-336, 338-341, 343-346 <i>Chapter 7 Resource Masters</i> 375-378, 390-394 <i>Chapter 10 Resource Masters</i> 553-556, 568-571 <i>Chapter 11 Resource Masters</i> 619-623, 624-627, 629-632 <i>Chapter 12 Resource Masters</i> 684-688 <i>Noteables Interactive Study Notebook with Foldables</i> 20-22, 148-150, 151-152, 153-154, 162-163, 168-170, 234, 235, 240-241, 260-262, 263, 264-265, 280-284</p>	<p><b>Student Edition:</b> 15 #41, #42, 86 #17, 101 #43, 122 #34, #35, 132-136, 137-140, 170-173, 178-182, 186 #15, 256-260, 262-265, 314-318, 319-323, 335-339, 347-351, 604-607, 613, 686-688 <i>Hands-on Lab</i> 183, 261, 278</p> <p><b>Teacher Wraparound Edition:</b> A 95, 145, 259; DI 138, 179, 189, 257, 315; IE 189; PC 114F; TNT 360</p> <p><b>Teacher Resources:</b> <i>Chapter 3 Resource Masters</i> 148-151, 153-156 <i>Chapter 4 Resource Masters</i> 200-203, 205-208 <i>Chapter 6 Resource Masters</i> 307-310, 312-315 <i>Chapter 7 Resource Masters</i> 377-380, 382-385, 397-400, 407-410 <i>Noteables Interactive Study Notebook with Foldables</i> 69-71, 72-73, 91-92, 93-95, 136-137, 139-140, 166-167, 168-169, 175-177, 180-182</p>

## STANDARDS

## PAGE REFERENCES

## Standard E—Statistics and Probability

## By the end of grade eight, students will:

<p>E.8.1 Work with data in the context of real-world situations by:</p> <ul style="list-style-type: none"> <li>• formulating questions that lead to data collection and analysis</li> <li>• designing and conducting a statistical investigation</li> <li>• using technology to generate displays, summary statistics*, and presentations</li> </ul>	<p><b>Student Edition:</b> 50-53, 56-59, 62-65, 75 #33 <i>The Game Zone</i> 71 <i>Problem-Solving Strategy</i> 54-55 <i>Spreadsheet Investigation</i> 60-61 <i>Study Guide and Review</i> 90-91</p> <p><b>Teacher Wraparound Edition:</b> A 53, 59; B 50, 56; DI 51; I-CE 51-52, 57-58</p> <p><b>Teacher Resources:</b> <i>Chapter 2 Resource Masters</i> 61, 62, 63, 66, 67, 68</p>	<p><b>Student Edition:</b> 52, 54-57, 64-68, 85-89 <i>Hands-on Lab</i> 73, 344 <i>Problem-Solving Strategy</i> 58-59 <i>Spreadsheet Investigation</i> 90-91 <i>Web Quest</i> 3, 103, 193</p> <p><b>Teacher Wraparound Edition:</b> A 79; B 64; DI 66; IE 55, 346</p> <p><b>Teacher Resources:</b> <i>Chapter 2 Resource Masters</i> 67-70, 77-81, 97-100, 106 <i>Noteables Interactive Study Notebook with Foldables</i> 32-35, 38, 39, 51-54</p>	<p><b>Student Edition:</b> 66 #49, 163 #3-#6, 416, 430-433, 463 #17, #18 <i>Graphing Calculator Investigation</i> 425, 543 <i>Hands-on Lab</i> 22, 434 <i>Problem-Solving Strategy</i> 123-124, 418-419, 537-538 <i>Spreadsheet Investigation</i> 165, 245 <i>Web Quest</i> 3, 371, 465</p> <p><b>Teacher Wraparound Edition:</b> B 430; IE 431</p> <p><b>Teacher Resources:</b> <i>Chapter 9 Resource Masters</i> 511-514 <i>Noteables Interactive Study Notebook with Foldables</i> 231, 232</p>
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STANDARDS	PAGE REFERENCES		
<p>E.8.2 Organize and display data from statistical investigations using:</p> <ul style="list-style-type: none"> <li>appropriate tables, graphs, and/or charts (e.g., circle, bar or line for multiple sets of data)</li> <li>appropriate plots (e.g., line*, stem-and-leaf*, box*, scatter*)</li> </ul>	<p><b>Student Edition:</b> 50-53, 56-59, 72-75 <i>The Game Zone</i> 71 <i>Problem-Solving Strategy</i> 54-55 <b>Teacher Wraparound Edition:</b> A 53, 59; B 50, 56, 72; DI 51, 73; I-CE 51-52, 57-58, 73 <b>Teacher Resources:</b> <i>Chapter 2 Resource Masters</i> 61, 62, 63, 66, 67, 68</p>	<p><b>Student Edition:</b> 52, 64-68, 76-79, 82, 85-89, 94 #9, #10, 101 #15, 418-421, 605 #3, 621 #20, #22, 625 #8 <i>Graphing Calculator Investigation</i> 84 <i>Hands-on Lab</i> 73, 344 <i>Problem-Solving Strategy</i> 58-59 <i>Spreadsheet Investigation</i> 90-91 <i>Web Quest</i> 3, 103, 193 <b>Teacher Wraparound Edition:</b> A 79; DI 66; IE 77 <b>Teacher Resources:</b> <i>Chapter 2 Resource Masters</i> 77-81, 87-91, 97-100 <i>Chapter 10 Resource Masters</i> 549-552 <i>Noteables Interactive Study Notebook with Foldables</i> 38, 39, 43-46, 51-54, 230-233</p>	<p><b>Student Edition:</b> 163 #3-#6, 203 #16, 416, 420-424, 426-429, 430-433, 446-449, 539-541, 656, 658 #13, #14, 677 #8 <i>Graphing Calculator Investigation</i> 543 <i>Hands-on Lab</i> 434 <i>Problem-Solving Strategy</i> 123-124, 418-419, 537-538 <i>Spreadsheet Investigation</i> 165 <i>Web Quest</i> 3 <b>Teacher Wraparound Edition:</b> A 424; B 426, 430; DI 427, 447; PS 461; TNT 431 <b>Teacher Resources:</b> <i>Chapter 9 Resource Masters</i> 501-504, 506-509, 511-514, 526-530 <i>Chapter 11 Resource Masters</i> 644-647 <i>Noteables Interactive Study Notebook with Foldables</i> 224-226, 227-230, 231-232, 239-241, 293-295</p>

STANDARDS		PAGE REFERENCES	
<p>E.8.3 Extract, interpret, and analyze information from organized and displayed data by using:</p> <ul style="list-style-type: none"> <li>• frequency and distribution, including mode* and range*</li> <li>• central tendencies* of data (mean* and median*)</li> <li>• indicators of dispersion (e.g., outliers*)</li> </ul>	<p><b>Student Edition:</b> 76-78, 80-83, 89 #15-#18 <i>Practice Test</i> 93 #3-#6 <i>Spreadsheet Investigation</i> 79, 84-85 <i>Study Guide and Review</i> 92 #17-#21</p> <p><b>Teacher Wraparound Edition:</b> DI 76; I-CE 77, 81; TNT 80</p> <p><b>Teacher Resources:</b> <i>Chapter 2 Resource Masters</i> 86, 87, 88, 91, 92, 93</p>	<p><b>Student Edition:</b> 54-57, 64-68, 69-72, 82, 94 #9, #10, 101 #12, 129 #6, 237 #11, #12, 613 #14 <i>Hands-on Lab</i> 73</p> <p><b>Teacher Wraparound Edition:</b> DI 55, 69; IE 55, 65, 70; PC 52F</p> <p><b>Teacher Resources:</b> <i>Chapter 2 Resource Masters</i> 67-70, 77-81, 82-85, 107, 109, 123 <i>Noteables Interactive Study Notebook with Foldables</i> 32-35, 38, 39, 40-42</p>	<p><b>Student Edition:</b> 416, 420-424, 435-438, 442-445, 451, 453, 461 #6, #7-#12, 665 #14 <i>The Game Zone</i> 441 <i>Problem-Solving Strategy</i> 418-419 <i>Spreadsheet Investigation</i> 439</p> <p><b>Teacher Wraparound Edition:</b> A 419, 424; DI 418, 436, 443, 451; IE 436, 451</p> <p><b>Teacher Resources:</b> <i>Chapter 9 Resource Masters</i> 501-504, 516-519, 521-524 <i>Noteables Interactive Study Notebook with Foldables</i> 224-227, 233-235, 236-238</p>

STANDARDS		PAGE REFERENCES	
<p>E.8.4 Use the results of data analysis to:</p> <ul style="list-style-type: none"> <li>• make predictions</li> <li>• develop convincing arguments</li> <li>• draw conclusions</li> </ul>	<p><b>Student Edition:</b> 66-69, 75 #30-#32, 78 #23 <i>Mid-Chapter Practice Test</i> 70 #8-#9</p> <p><b>Teacher Wraparound Edition:</b> A 69; B 66; DI 68; I-CE 67</p> <p><b>Teacher Resources:</b> <i>Chapter 2 Resource Masters</i> 76, 77, 78</p>	<p><b>Student Edition:</b> 60-63, 68 #27, 74 #11, 101 #15, 191 #20, 345-347, 357 #38, 365 #10</p> <p><i>Hands-on Lab</i> 73, 344</p> <p><i>Problem-Solving Strategy</i> 58-59, 252-253</p> <p><i>Web Quest</i> 3, 103, 193</p> <p><b>Teacher Wraparound Edition:</b> A 59, 63, 253; B 60; DI 59, 346; IE 61, 420</p> <p><b>Teacher Resources:</b> <i>Chapter 2 Resource Masters</i> 72-75, 106</p> <p><i>Chapter 8 Resource Masters</i> 445-448</p> <p><i>Noteables Interactive Study Notebook with Foldables</i> 36, 37, 190, 191</p>	<p><b>Student Edition:</b> 163 #11-#14, 173 #45, 406-409, 540, 541 #8, 677 #9</p> <p><i>Hands-on Lab</i> 22, 278, 521</p> <p><i>Problem-Solving Strategy</i> 123-124, 276-277</p> <p><i>Web Quest</i> 3, 371</p> <p><b>Teacher Wraparound Edition:</b> PS 413, 555</p> <p><b>Teacher Resources:</b> <i>Chapter 8 Resource Masters</i> 475-478</p> <p><i>Noteables Interactive Study Notebook with Foldables</i> 213-215</p>

STANDARDS		PAGE REFERENCES	
<p>E.8.5 Compare several sets of data to generate, test, and, as the data dictate, confirm or deny hypotheses</p>	<p><b>Student Edition:</b> 428-431, 433-436, 438-441, 444-447, 450-453 <i>The Game Zone</i> 443 <i>Hands-on Lab</i> 426-427 <i>Mid-Chapter Practice Test</i> 442 #3-#6 <i>Practice Test</i> 457 <i>Study Guide and Review</i> 454-456 <b>Teacher Wraparound Edition:</b> B 433; DI 451; I-CE 445, 451</p>	<p><b>Student Edition:</b> 62 #8, #9, #10-#12, 67 #19-#22, 86-87 #2, #3, 89 #17, 94 #7, 101 #15, #16, 420 #7-#9, 605 #3 <i>Hands-on Lab</i> 73, 344 <i>Web Quest</i> 3, 103, 193 <b>Teacher Wraparound Edition:</b> IE 65; TNT 61 <b>Teacher Resources:</b> <i>Chapter 2 Resource Masters</i> 97, 115, 116, 117, 118 <i>Noteables Interactive Study Notebook with Foldables</i> 54</p>	<p><b>Student Edition:</b> 416, 420-424, 427 #2, 430-433, 440 #3, #4, 445 #25, 541 #6-#8 <i>Problem-Solving Strategy</i> 537-538 <i>StudySkill</i> 215 <i>Web Quest</i> 371, 457 <b>Teacher Wraparound Edition:</b> A 424, 429; DI 427; IE 540 <b>Teacher Resources:</b> <i>Chapter 9 Resource Masters</i> 501-504, 511-514 <i>Noteables Interactive Study Notebook with Foldables</i> 224-227, 231-232</p>
<p>E.8.6 Evaluate presentations and statistical analyses from a variety of sources for:</p> <ul style="list-style-type: none"> <li>credibility of the source</li> <li>techniques of collection, organization, and presentation of data</li> <li>missing or incorrect data</li> <li>inferences</li> <li>possible sources of bias</li> </ul>	<p><b>Student Edition:</b> 66-69, 75 #30-#32, 78 #23, 86-89 <i>Mid-Chapter Practice Test</i> 70 #8-#9 <b>Teacher Wraparound Edition:</b> A 69; B 66; DI 68; I-CE 67, 87-88 <b>Teacher Resources:</b> <i>Chapter 2 Resource Masters</i> 76, 77, 78, 96, 97, 98</p>	<p><b>Student Edition:</b> 57 #19, 60-63, 67 #21, 68 #24, 92-95, 345-347 <i>Hands-on Lab</i> 73, 301, 344 <i>Problem-Solving Strategy</i> 58-59 <i>Web Quest</i> 3, 103, 193 <b>Teacher Wraparound Edition:</b> A 59, 63, 95; DI 59, 346; IE 58, 61; TT 52C <b>Teacher Resources:</b> <i>Chapter 2 Resource Masters</i> 72-75, 102-105, 128 <i>Chapter 8 Resource Masters</i> 445-448, 479 <i>Noteables Interactive Study Notebook with Foldables</i> 55-56</p>	<p><b>Student Edition:</b> 406-409, 414 #7, 424 #26, 429 #16, 450-453, 677 #9 <i>Web Quest</i> 3, 371, 457, 465 <b>Teacher Wraparound Edition:</b> A 409, 453; B 406, 450; DI 407; IE 407 <b>Teacher Resources:</b> <i>Chapter 8 Resource Masters</i> 475-478 <i>Chapter 9 Resource Masters</i> 531-534 <i>Noteables Interactive Study Notebook with Foldables</i> 213-215, 242-243</p>

STANDARDS		PAGE REFERENCES	
<p>E.8.7 Determine the likelihood of occurrence of simple events by:</p> <ul style="list-style-type: none"> <li>• using a variety of strategies to identify possible outcomes (e.g., lists, tables, tree diagrams*)</li> <li>• conducting an experiment</li> <li>• designing and conducting simulations*</li> <li>• applying theoretical notions of probability (e.g., that four equally likely events have a 25% chance of happening)</li> </ul>	<p><b>Student Edition:</b>  428-431, 433-436, 438-441, 444-447, 450-453  <i>The Game Zone</i> 443  <i>Hands-on Lab</i> 426-427  <i>Mid-Chapter Practice Test</i> 442 #3-#6  <i>Practice Test</i> 457  <i>Study Guide and Review</i> 454-456</p> <p><b>Teacher Wraparound Edition:</b>  I-CE 445, 451</p> <p><b>Teacher Resources:</b>  <i>Chapter 11 Resource Masters</i> 551, 552, 553, 561, 562, 563, 566, 567, 568, 571, 572, 573</p>	<p><b>Student Edition:</b>  368, 370-373, 374-377, 378-380, 381-383, 387-390, 393-396, 402-404, 406 #6, 407, 604 #4-#6, 621 #33  <i>Hands-on Lab</i> 386, 397  <i>Problem-Solving Strategy</i> 391-392</p> <p><b>Teacher Wraparound Edition:</b>  A 373, 380; B 391; DI 371, 388; IE 371, 375, 382; PS 405</p> <p><b>Teacher Resources:</b>  <i>Chapter 9 Resource Masters</i> 485-488, 490-493, 495-498, 500-503, 506-508, 510-512, 538  <i>Noteables Interactive Study Notebook with Foldables</i> 206, 207, 208-210, 211, 212-213, 214-215, 216-217</p>	<p><b>Student Edition:</b>  372, 374-377, 380-383, 384-387, 388-389, 396-399, 400-403, 415 #13, #14, #15  <i>Graphing Calculator Investigation</i> 404-405  <i>Hands-on Lab</i> 392-393  <i>Problem-Solving Strategy</i> 378-379  <i>Web Quest</i> 371</p> <p><b>Teacher Wraparound Edition:</b>  A 383, 403; B 380; DI 400; IE 381; PS 413</p> <p><b>Teacher Resources:</b>  <i>Chapter 8 Resource Masters</i> 445-448, 450-453, 455-458, 460-463, 465-468, 470-473  <i>Noteables Interactive Study Notebook with Foldables</i> 196-197, 198-200, 201-202, 203-205, 206-208, 209-212</p>

## STANDARDS

## PAGE REFERENCES

## Standard F—Algebraic Relationships

## By the end of grade eight, students will:

<p>F.8.1 Work with algebraic expressions in a variety of ways, including</p> <ul style="list-style-type: none"> <li>• using appropriate symbolism, including exponents* and variables*</li> <li>• evaluating expressions through numerical substitution</li> <li>• generating equivalent expressions</li> <li>• adding and subtracting expressions</li> </ul>	<p><b>Student Edition:</b> 24-27, 28-31, 37 #46-#49, 41 #27 <i>Study Guide and Review</i> 44 #32-#47</p> <p><b>Teacher Wraparound Edition:</b> A 27, 31; B 24; I-CE 25, 29</p> <p><b>Teacher Resources</b> <i>Chapter 1 Resource Masters</i> 21, 22, 23, 26, 27, 28</p>	<p><b>Student Edition:</b> 4, 18-21, 28 #18, 30, 136 #36-#43, 150-152 <i>The Game Zone</i> 29</p> <p><b>Teacher Wraparound Edition:</b> A 21; IE 19, 151</p> <p><b>Teacher Resources:</b> <i>Chapter 1 Resource Masters</i> 16-19, 61 <i>Chapter 4 Resource Masters</i> 185-188, 221, 223 <i>Noteables Interactive Study Notebook with Foldables</i> 10, 11, 86, 87</p>	<p><b>Student Edition:</b> 11-15, 21 #52-#57, 26 #39-#42, 39-42, 145 #27, 469-473, 648 #9, 668 #6 <i>Hands-on Lab</i> 468, 482-483 <i>Web Quest</i> 465</p> <p><b>Teacher Wraparound Edition:</b> A 42; B 39; DI 40; TNT 40</p> <p><b>Teacher Resources:</b> <i>Chapter 1 Resource Masters</i> 6-9, 31-34 <i>Chapter 10 Resource Masters</i> 563-566 <i>Noteables Interactive Study Notebook with Foldables</i> 6, 7, 8, 21, 22, 253-255</p>
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STANDARDS		PAGE REFERENCES	
<p>F.8.2 Work with linear and nonlinear patterns* and relationships in a variety of ways, including</p> <ul style="list-style-type: none"> <li>representing them with tables, with graphs, and with algebraic expressions, equations, and inequalities</li> <li>describing and interpreting their graphical representations (e.g., slope*, rate of change, intercepts*)</li> <li>using them as models of real-world phenomena</li> <li>describing a real-world phenomenon that a given graph might represent</li> </ul>	<p><b>Student Edition:</b> 362-365, 366-369 <i>Hands-on Lab</i> 360-361</p> <p><b>Teacher Wraparound Edition:</b> A 365; I-CE 363</p> <p><b>Teacher Resources:</b> <i>Chapter 9 Resource Masters</i> 458, 459, 460</p>	<p><b>Student Edition:</b> 18-21, 27 #42, #43, 34-36, 41 #42, 51 #17, 88 #7-#10, 136 #45, 141 #37, 147 #14, #15, 148, 152 #26, #27, 175 #36-#39, 177-181, 182-185, 191 #10, #20, 399 #14-#16</p> <p><i>Hands-on Lab</i> 154-155, 176, 296 <i>Problem-Solving Strategy</i> 58-59, 132-133</p> <p><b>Teacher Wraparound Edition:</b> A 181; DI 25, 133</p> <p><b>Teacher Resources:</b> <i>Chapter 1 Resource Masters</i> 16-19, 31-34, 61 <i>Chapter 4 Resource Masters</i> 210-213, 215-218, 219 <i>Noteables Interactive Study Notebook with Foldables</i> 10, 11, 26, 98-100, 101-102</p>	<p><b>Student Edition:</b> 7 #1, 42 #22-#24, 59 #11, 160-162, 166-169, 173 #47, 522-525, 533-536, 544-547, 548-551, 560-563</p> <p><i>The Game Zone</i> 531 <i>Graphing Calculator Index</i> 532 <i>Hands-on Lab</i> 516, 521 <i>Problem-Solving Strategy</i> 96-97, 418-419 <i>Spreadsheet Investigation</i> 165</p> <p><b>Teacher Wraparound Edition:</b> A 519, 536, 547; B 166, 560; DI 96, 167; IE 167, 523</p> <p><b>Teacher Resources:</b> <i>Chapter 4 Resource Masters</i> 190-193, 195-198 <i>Chapter 11 Resource Masters</i> 629-632, 639-643, 649-652 <i>Chapter 12 Resource Masters</i> 679-682 <i>Noteables Interactive Study Notebook with Foldables</i> 86-88, 89-92, 286-288, 291-292, 297-299, 300-302, 309-311</p>

STANDARDS		PAGE REFERENCES	
<p>F.8.3 Recognize, describe, and analyze functional relationships* by generalizing a rule that characterizes the pattern of change among variables. These functional relationships include exponential growth and decay (e.g., cell division, depreciation)</p>	<p><b>Student Edition:</b> 24-27, 28-31, 37 #46-#49, 41 #27, 47 #15-#20, 362-365, 366-369 <i>Study Guide and Review</i> 44 #32-#47 <i>Hands-on Lab</i> 360-361 <b>Teacher Wraparound Edition:</b> A 27, 31, 365; B 24, 362, 366; I-CE 25, 29, 363, 367</p>	<p><b>Student Edition:</b> 177-181, 182-185, 237 #14 <i>Hands-on Lab</i> 176, 274, 296 <b>Teacher Wraparound Edition:</b> B 182; IE 179 <b>Teacher Resources:</b> <i>Chapter 1 Resource Masters</i> 26-29 <i>Chapter 4 Resource Masters</i> 210-213, 215-218, 219 <i>Noteables Interactive Study Notebook with Foldables</i> 98-100, 101-102</p>	<p><b>Student Edition:</b> 517-520, 522-525, 534, 560-563, 597 #16-#20, 659 <i>Hands-on Lab</i> 521 <b>Teacher Wraparound Edition:</b> A 519, 525; DI 518, 523; IE 523 <b>Teacher Resources:</b> <i>Chapter 11 Resource Masters</i> 624-629, 631-632 <i>Chapter 12 Resource Masters</i> 679-683 <i>Noteables Interactive Study Notebook with Foldables</i> 283-285, 286-288, 309-311</p>
<p>F.8.4 Use linear equations and inequalities in a variety of ways, including</p> <ul style="list-style-type: none"> <li>writing them to represent problem situations and to express generalizations</li> <li>solving them by different methods (e.g., informally, graphically, with formal properties, with technology)</li> <li>writing and evaluating formulas (including solving for a specified variable)</li> <li>using them to record and describe solution strategies</li> </ul>	<p><b>Student Edition:</b> 34-37, 339-342, 344-347, 350-353, 355-357 <i>The Game Zone</i> 349 <i>Hands-on Lab</i> 337-338, 343, 354 <i>Problem-Solving Strategy</i> 358-359 <b>Teacher Wraparound Edition:</b> A 37, 353, 357; I-CE 35 <b>Teacher Resources:</b> <i>Chapter 9 Resource Masters</i> 438, 439, 440, 453, 454, 455</p>	<p><b>Student Edition:</b> 172-175, 177-181, 191 #19, #20, 599 #7-#8 <i>Hands-on Lab</i> 176 <b>Teacher Wraparound Edition:</b> A 181; IE 173, 179 <b>Teacher Resources:</b> <i>Chapter 4 Resource Masters</i> 205-208, 210-213, 215-218 <i>Noteables Interactive Study Notebook with Foldables</i> 95-97, 98-101</p>	<p><b>Student Edition:</b> 53 #45, 479 #5, 492-495, 496-499, 509 #15-#19, 544-547, 548-551, 554 <b>Teacher Wraparound Edition:</b> A 551, 563; DI 549; IE 493, 545, 549 <b>Teacher Resources:</b> <i>Chapter 10 Resource Masters</i> 588-589, 590, 591 <i>Chapter 11 Resource Masters</i> 649-652, 654-657 <i>Noteables Interactive Study Notebook with Foldables</i> 264-266, 267-269, 296-299, 300-302</p>

STANDARDS	PAGE REFERENCES		
<p>F.8.5 Recognize and use generalized properties and relations, including</p> <ul style="list-style-type: none"> <li>additive and multiplicative property of equations and inequalities</li> <li>commutativity* and associativity* of addition and multiplication</li> <li>distributive* property</li> <li>inverses* and identities* for addition and multiplication</li> <li>transitive* property</li> </ul>	<p><b>Student Edition:</b> 333-336, 339-342, 344-347, 350-353, 353-357</p> <p><i>Hands-on Lab</i> 332, 337-338, 343, 354</p> <p><b>Teacher Wraparound Edition:</b> A 342, 347; B 333, 339, 355; I-CE 351, 356</p> <p><b>Teacher Resources:</b> <i>Chapter 9 Resource Masters</i> 433, 434, 435, 438, 439, 440, 443, 444, 445, 448, 449, 450</p>	<p><b>Student Edition:</b> 30-33, 36 #30, #31, 48 #40-#43, 50 #6, 121, 258-259</p> <p><b>Teacher Wraparound Edition:</b> A 33; DI 31; IE 31</p> <p><b>Teacher Resources:</b> <i>Chapter 1 Resource Masters</i> 26-29, 47 <i>Chapter 6 Resource Masters</i> 323, 351, 353 <i>Noteables Interactive Study Notebook with Foldables</i> 15, 16, 27, 144, 145</p>	<p><b>Student Edition:</b> 13-15, 25, 58 #3, 75, 76, 85 #33, 98 #1, 126</p> <p><b>Teacher Wraparound Edition:</b> A 15, 31, 34, 35, 80; B 28; DI 133</p> <p><b>Teacher Resources:</b> <i>Chapter 1 Resource Masters</i> 7 <i>Chapter 2 Resource Masters</i> 82, 85 <i>Noteables Interactive Study Notebook with Foldables</i> 8, 41</p>