



© 2009

STANDARDS	PAGE REFERENCES
<p>Algebraic Reasoning: Patterns And Functions – Patterns and functional relationships can be represented and analyzed using a variety of strategies, tools and technologies. How do patterns and functions help us describe data and physical phenomena and solve a variety of problems?</p>	
<p>Students should...</p>	
<p>1.1 Understand and describe patterns and functional relationships.</p>	
<p>a. Sort and classify objects using attributes.</p>	<p>Student Edition: 17-18, 19-20, 23-24 <i>Chapter Review</i> 35 <i>Game Time</i> 26 <i>Mid-Chapter Check</i> 25 <i>Problem Solving</i> 33-34 <i>Problem-Solving Strategy</i> 21-22 <i>Spiral Review</i> 36 <i>Test Practice</i> 37-38 Teacher Edition: CP 15; CT 19, 21, 23; DM 25; DI 21B; FMC 17A, 19A; 5MC 21A</p>

STANDARDS	PAGE REFERENCES
Continued from cell above... a. Sort and classify objects using attributes.	Continued from cell above... Impact Mathematics K Student Edition: 53-54, 55-56, 57-58, 59-60, 63-64, 65-66, 76 Teacher Guide: T53-T54, T55-T56, T57-T58, T59-T60, T63-T64, T65-T66, T75-T76
b. Identify a pattern and describe the rule using the physical attributes or position of objects in a sequence.	Student Edition: 77-78, 81-82, 85-86, 87-88 <i>Chapter Review</i> 94 <i>Game Time</i> 80 <i>Mid-Chapter Check</i> 79 <i>Problem Solving</i> 91-92 <i>Problem-Solving Projects</i> P3-P6, P15-P16 <i>Problem-Solving Strategy</i> 83-84, 135-136, 161-162 <i>Spiral Review</i> 94 <i>Start Smart</i> 5-6 <i>Test Practice</i> 95-96, 148 #5 Teacher Edition: BI 67A; CCL 67G, 67H; CP 69; CT 77, 81, 85, 87; DI 77B, 81B, 83B; RW 67; 5MC 81A, 83A, 85A, 87A, 89A Impact Mathematics Grade K Student Edition: 41-42, 43-44 Teacher Guide: T41-T42, T43-T44
1.2 Represent and analyze quantitative relationships in a variety of ways.	
1.3 Use operations, properties and algebraic symbols to determine equivalence and solve problems.	

STANDARDS	PAGE REFERENCES
<p>Numerical and Proportional Reasoning – Quantitative relationships can be expressed numerically in multiple ways in order to make connections and simplify calculations using a variety of strategies, tools and technologies.</p> <p>How are quantitative relationships represented by numbers?</p>	
<p>Students should...</p>	
<p>2.1 Understand that a variety of numerical representations can be used to describe quantitative relationships.</p>	
<p>a. Use numbers to count, order, compare, label, locate and measure.</p>	<p>Student Edition: 43-44, 47-48, 57-58, 59-60, 101-104, 109-110, 115-118, 153-168, 179-184, 189-192 <i>Chapter Review</i> 64, 171, 198 <i>Game Time</i> 52, 108, 188 <i>Looking Ahead</i> LA7-LA8 <i>Mid-Chapter Check</i> 51, 107, 159 <i>Problem Solving</i> 61-62, 121-122, 169-170 <i>Problem-Solving Projects</i> P7-P10, P11-P14 <i>Problem-Solving Strategy</i> 53-54, 113-114 <i>Spiral Review</i> 146 <i>Start Smart</i> 7-8 <i>Test Practice</i> 65-66, 126-127, 148 #6, 173-174, 199-200</p> <p>Teacher Edition: BI 39A; CCL 39G, 39H, 97G, 97H; CP 41; CT 43, 47, 101; DI 43B, 47B; FMC 43A, 47A, 59A, 101A, 103A, 109A, 117A, 179A, 181A, LA8A; RW 39, 97</p> <p>Impact Mathematics Grade K Student Edition: 3-4, 5-6, 7-8, 9-10, 13-14, 15-16, 17-18, 20, 23-24, 26, 27-28, 29-30, A1-A2, A5-A6, A10</p> <p>Teacher Guide: T3-T4, T5-T6, T7-T8, T9-T10, T13-T14, T15-T16, T17-T18, T19-T20, T23-T24, T25-T26, T27-T28, T29-T30, A3-A4, A7-A8, A11-A12</p>
<p>b. Share equal parts of an object.</p>	<p>Student Edition: 269-270 <i>Chapter Review</i> 276 #3 <i>Looking Ahead</i> LA13-LA14</p> <p>Teacher Edition: CT 269, LA13; DI 269B; FMC 269A, LA13A</p>

STANDARDS	PAGE REFERENCES
<p>c. Share a set of objects that is divided into groups with equal amounts.</p>	<p>Student Edition: 269-270 <i>Chapter Review</i> 276 #3 <i>Looking Ahead</i> LA13-LA14</p> <p>Teacher Edition: CT 269, LA13; DI 269B; FMC 269A, LA13A</p> <p>Impact Mathematics K</p> <p>Student Edition: 5</p>
<p>2.2 Use numbers and their properties to compute flexibly and fluently, and to reasonably estimate measures and quantities.</p>	
<p>a. Count, adding one more to the previous number and group and count by ones and tens.</p>	<p>Student Edition: 43-44, 47-48, 101-102, 103-104, 109-112, 115-116, 153-166, 205-208 <i>Chapter Review</i> 63 <i>Game Time</i> 108, 160 <i>Problem Solving</i> 61-62, 121-122 <i>Problem-Solving Strategy</i> 161-162 <i>Spiral Review</i> 64 <i>Test Chapter</i> 65, 66 #7, 126 #4</p> <p>Teacher Edition: CCL 39G, 39H, 149H; CP 151; DI 109B; FMC 43A, 101A, 109A, 115A, 163A; P 102, 104, 116</p> <p>Impact Mathematics K</p> <p>Student Edition: 3-4, 5-6, 23-24, 25-26, 29-30, 33-34, 37-38, 39-40, A5-A6, A7-A8</p> <p>Teacher Guide: T3-T4, T5-T6, T23-T24, T25-T26, T29-T30, T33-T34, T37-T38, T39-T40</p>

STANDARDS	PAGE REFERENCES
<p>Geometry and Measurement – Shapes and structures can be analyzed, visualized, measured and transformed using a variety of strategies, tools and technologies.</p> <p>How do geometric relationships and measurements help us to solve problems and make sense of our world?</p>	
<p>Students should...</p>	
<p>3.1</p> <p>Use properties and characteristics of two- and three-dimensional shapes and geometric theorems to describe relationships, communicate ideas and solve problems.</p>	
<p>a. Identify and sort shapes and solids by physical characteristics.</p>	<p>Student Edition: 23, 255-256, 257-258, 261-262, 263-264 <i>Chapter Review</i> 276 <i>Game Time</i> 266 <i>Mid-Chapter Check</i> 25, 265 <i>Problem Solving</i> 273-274 <i>Problem-Solving Projects</i> P7-P10 <i>Problem-Solving Strategy</i> 21 <i>Test Practice</i> 277</p> <p>Teacher Edition: CCL 251G(T); CT 263; FMC 255A, 257A, 261A, 263A; P 256; 5MC 17A</p> <p>Impact Mathematics Grade K</p> <p>Student Edition: 53-54, 55-56, 57-58, 59-60, 63-64, 65-66, 76</p> <p>Teacher Guide: T53-T54, T55-T56, T57-T58, T59-T60, T63-T64, T65-T66, T75-T76</p>
<p>3.2</p> <p>Use spatial reasoning, location and geometric relationships to solve problems.</p>	
<p>a. Use positional language to describe location, direction and position of objects.</p>	<p>Student Edition: 71-76, 119-120 <i>Mid-Chapter Check</i> 79 <i>Start Smart</i> 2 <i>Problem-Solving Project</i> P15-P18</p> <p>Teacher Edition: CP 69; CT 73, 75; DI 71B, 119B</p> <p>Impact Mathematics K</p> <p>Student Edition: 43-44, 45-46, 47-48, 49-50, A10</p> <p>Teacher Guide: T43-T44, T45-T46, T47-T48, T49-T50, A11-A12</p>

STANDARDS	PAGE REFERENCES
<p>3.3 Develop and apply units, systems, formulas and appropriate tools to estimate and measure.</p>	
<p>a. Use calendars and clocks to measure and record time.</p>	<p>Student Edition: 229-230, 231-232, 233-234, 235-236, 239-240, 241-242 <i>Chapter Review</i> 248 <i>Game Time</i> 238 <i>Mid-Chapter Check</i> 237 <i>Problem-Solving Strategy</i> 243 <i>Test Practice</i> 249</p> <p>Teacher Edition: CaT 39H, 97H, 149H, 175H, 225H, 313H; CP 227; CT 231; DI 231B, 233B, 239B; FMC 229A, 231A, 233A, 235A, 239A, 241A; 5MC 241A, 243A</p>
<p>b. Use nonstandard units to estimate measures of length, area, temperature, weight and capacity.</p>	<p>Student Edition: 179-180, 183-184, 189-190, 191-192, 193-194 <i>Problem-Solving Project</i> P7-P10, P11-P14, P15-P18 <i>Problem-Solving Strategy</i> 185-186 <i>Test Practice</i> 199-200</p> <p>Teacher Edition: DI 185B; FMC 179A, 183A; 5MC 191A, 193A <i>Impact Mathematics Grade K</i></p> <p>Student Edition: 83-84, 85-86, 87-88, 89-90, 91-92, 95-96, 97-98, 99-100, 101-102</p> <p>Teacher Guide: T83-T84, T85-T86, T87-T88, T89-T90, T91-T92, T95-T96, T97-T98, T99-T100, T101-T102</p>

STANDARDS	PAGE REFERENCES
<p>Working with Data: Probability and Statistics – Data can be analyzed to make informed decisions using a variety of strategies, tools and technologies.</p> <p>How can collecting, organizing and displaying data help us analyze information and make reasonable predictions and informed decisions?</p>	
<p>Students should...</p>	
<p>4.1 Collect, organize and display data using appropriate statistical and graphical methods.</p>	
<p>a. Visualize information and make comparisons about information displayed in real and picture graphs.</p>	<p>Student Edition: 131-132, 133-134, 139-140, 141-142 <i>Chapter Review</i> 145 <i>Game Time</i> 138 <i>Mid-Chapter Check</i> 137 <i>Problem Solving</i> 143-144 <i>Problem-Solving Projects</i> P15-P18 <i>Problem-Solving Strategy</i> 135-136 <i>Start Smart</i> 11-12 <i>Test Practice</i> 147-148</p> <p>Teacher Edition: CCL 127G, 127H; CP 129; CT 131, 133, 139; DI 135B; FMC 131A, 133A, 139A, 141B</p> <p>Impact Mathematics K</p> <p>Student Edition: 73-74, 75-76, 77-78, 79-80, A18</p> <p>Teacher Guide: T73-T74, T75-T76, T77-T78, T79-T80, A19-A20</p>

STANDARDS	PAGE REFERENCES
<p>4.2 Analyze data sets to form hypotheses and make predictions.</p>	
<p>a. Extend different types of patterns and make predictions.</p>	<p>Student Edition: 81-82, 85-86, 87-88, 89-90 <i>Chapter Review</i> 94 <i>Problem Solving</i> 91-92 <i>Problem-Solving Projects</i> P3-P6, P15-P18 <i>Test Practice</i> 96 <i>Start Smart</i> 5-6</p> <p>Teacher Edition: CCL 67G, 67H; DI 87B, 89B; 5MC 81A</p> <p>Impact Mathematics K Student Edition: 43-44, 69-70 Teacher Guide: T43-T44, T69-T70</p>
<p>4.3 Understand and apply basic concepts of probability.</p>	
<p>a. Observe the frequency of real-world events and identify the likelihood of future events.</p>	<p>See <i>Math Connects 1</i> © 2009.</p>