

# Chess Atlas Worksheet –Third Grade © 2005

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Developed for the Greenburgh Central School District (NY)

by the National Scholastic Chess Foundation Inc.

Month	Chess Content	Skills	Math Skills
October	<ul style="list-style-type: none"> <li>• Notation</li> <li>• Demarcation line</li> <li>• Royalty line</li> <li>• Space</li> </ul>	Recording data Identifying lines of movement Locating points and coordinates Graphing and mapping Evaluating spatial imbalance Solve problems related to content	Utilize skip counting technique with numbers 2 thru 10 Identify characteristics of bar graphs Gather data, tally findings Construct pictographs, bar graphs and line graphs Add /subtract to analyze data Solve problems related to content
November	<ul style="list-style-type: none"> <li>• Mobility and Piece Development</li> <li>• Static/ Dynamic Value</li> </ul>	Addition and subtraction Moves in multiples Rounding and Estimating Determining the presence or lack of compensation Solve problems related to content.	Add / Subtract 2, 3, and 4 digit whole numbers with grouping Add and solve for an unknown variable Round whole numbers to the nearest tens and hundreds Estimate use of whole numbers in the real world situations Learn basic multiplication facts Utilize skip counting Solve problems related to content
December	<ul style="list-style-type: none"> <li>• Comprehending Positional Elements</li> </ul>	Comparing strengths and weaknesses Identifying positional imbalances Solve problems related to	Multiply 2 and 3 digit numbers by a single digit number Use regrouping in multiplication Apply basic division

		content	Explore division strategies with and without remainders Divide 3 digit dividends by one digit divisor Utilize skip counting Solve problems related to content
January	<ul style="list-style-type: none"> <li>The Element of Time</li> </ul>	<p>Measuring time Recognizing the relationship between time and space Visualizing the board without moving pieces Solve problems related to content</p>	<p>Review parts of a clock Tell time to the minute Calculate elapsed time to the minute Read calendar for a specific purpose Build model clocks Identify coins and currency Count and write monetary values Make change Add, subtract and multiply money Utilize skip counting Solve word problems related to content</p>
February	<ul style="list-style-type: none"> <li>Tactical Motifs</li> <li>Attack and Defense</li> </ul>	<p>Studying combinations of moves Grouping and regrouping Captures and exchanges</p>	<p>Apply the metric measurements of length , weight, capacity Build models to scale using metric measurement Tell temperature using degrees Celsius Solve word problems related to content</p>
March	<ul style="list-style-type: none"> <li>Analyzing Pawn Structure</li> <li>Evaluating Permanent and Temporary Advantages</li> </ul>	<p>Long term strategic planning Recognizing Landmark positions Simplifying complex situations <math>\pm = \infty</math> Predicting responses and projecting possible outcomes</p>	<p>Identify fractions as equal parts or as a whole Name numerator and denominator Find fractions of numbers/sets Find equivalent fractions Order fractions from least to greatest ( &gt; &lt; = ) Identify mixed numbers Add/subtract fraction w/like denominators Conduct experiments to determine probability</p>

			<p>Predict possible outcomes  Write probability as a fraction  Solve word problems on content.</p>
April	<ul style="list-style-type: none"> <li>Strategy and Tactics in Action: Harmony and Conflict</li> </ul>	<p>Identifying the “square of the pawn”  Utilizing triangulation as it pertains to the King  Applying the Theory of Corresponding Squares  Experimenting with various problem solving strategies to obtain solutions  Solve problems relating to content</p>	<p>Identify shapes/ solids  Identify lines/ line segments  Recognize acute, right and obtuse angles  Identify line of symmetry  Construct symmetrical designs  Recognize congruence between like shapes  Determine perimeter, area and volume of shapes  Use cubes to build models to determine volume  Use coordinates to draw shapes on a grid  Solve word problems related to content</p>