

BLACKSTONE-MILLVILLE REGIONAL SCHOOL DISTRICT CURRICULUM TOPICS MAP

SCHOOL: FWH Middle School

COURSE: Pre-Algebra

GRADE: 7

KEY: √ *Review/Extend from Gr. 6*
 ☑ *Introduce Gr. 7*

September	October	November	December	January
<p>Number Sense Review</p> <ul style="list-style-type: none"> √ Divisibility rules √ Factors √ Multiples √ Prime Factors √ GCF √ LCM <p>Patterns</p> <ul style="list-style-type: none"> √ Visual, Models, Formulas, Tables and Functions ☑ Arithmetic Series ☑ Geometric Series ☑ Order of operations <u>using exponents</u> 	<p>Fractions</p> <ul style="list-style-type: none"> √ Simplify √ Order, compare √ Equivalent √ Add/subtract √ Multiply/divide <p>Decimals</p> <ul style="list-style-type: none"> √ Convert between fraction ↔ decimal √ Round, estimate √ Order, compare √ Add/subtract ☑ Multiply/<u>divide</u> <p>Scientific Notation</p> <ul style="list-style-type: none"> √ Exponents ☑ To/from scientific notation 	<p>Percents</p> <ul style="list-style-type: none"> √ Percent as ratio √ 5% of 12 ☑ 3 is n% of 12 ☑ 6% of n is 12 • Applications <ul style="list-style-type: none"> √ sales tax √ mark up √ discount √ commission ☑ simple interest ☑ rate of discount ☑ % increase ☑ % decrease 	<p>Integers</p> <ul style="list-style-type: none"> √ Opposites √ Ordering, comparing ☑ Adding/<u>subtracting</u> <u>multiplying/dividing</u> ☑ Absolute value ☑ Properties: <ul style="list-style-type: none"> - <u>distributive</u> - <u>commutative</u> 	<p>Equations</p> <ul style="list-style-type: none"> √ Algebraic expressions √ Tables & Functions √ 1 step equations √ 2 step equations <p>Proportions</p> <ul style="list-style-type: none"> √ Ratios √ Scale drawings ☑ Similar figures √ Rates/unit rates √ Conversions within and between systems (customary/metric)

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February	March	April	May	June									
<p>Geometry</p> <ul style="list-style-type: none"> √ Points, lines, planes √ Angles <ul style="list-style-type: none"> - Classify - Measure, draw <input checked="" type="checkbox"/> Parallel lines cut by transversal <input checked="" type="checkbox"/> Corresponding, vertical, adjacent √ Polygons <ul style="list-style-type: none"> - Classify by side and angle - Sum of interior angles - Triangles, classify - Quads, classify √ Circle parts √ 3-D Figures, Identify <input checked="" type="checkbox"/> <u>Similar</u>/Congruent figures 	<p>Coordinate Geometry</p> <ul style="list-style-type: none"> √ 4-quadrant coordinate plane √ Plotting points √ Transformations <ul style="list-style-type: none"> - translations - rotations - reflections <input checked="" type="checkbox"/> Plotting lines, linear equations <input checked="" type="checkbox"/> Rate of change (slope) <ul style="list-style-type: none"> - from points - from line 	<p>Measurement</p> <ul style="list-style-type: none"> • Polygons (including parallelograms and <u>trapezoids</u>) <ul style="list-style-type: none"> √ Area √ Perimeter • Circles <ul style="list-style-type: none"> √ Area √ Circumference • 3-D Figures (Solids) <ul style="list-style-type: none"> √ Rectangular Prism <ul style="list-style-type: none"> - Surface area - Volume <input checked="" type="checkbox"/> Cylinders <ul style="list-style-type: none"> - Surface area - Volume 	<p>Probability</p> <ul style="list-style-type: none"> √ <u>Experimental</u> Prob. √ <u>Theoretical</u> Prob. <input checked="" type="checkbox"/> Dependant/independent events √ Counting principle √ Tree diagrams <p>Data Analysis</p> <ul style="list-style-type: none"> √ Data collecting, samples √ Circle graphs √ Stem & Leaf √ Line plots <input checked="" type="checkbox"/> Bar graphs <input checked="" type="checkbox"/> Freq. charts <input checked="" type="checkbox"/> Line graphs <input checked="" type="checkbox"/> Venn Diagrams √ Data Measures <ul style="list-style-type: none"> - Range <p style="margin-left: 20px;"> <i>Central Tendency</i> <table style="display: inline-table; vertical-align: middle;"> <tr> <td style="font-size: 2em;">}</td> <td style="padding: 0 5px;">-</td> <td>Mean</td> </tr> <tr> <td style="font-size: 2em;">}</td> <td style="padding: 0 5px;">-</td> <td>Median</td> </tr> <tr> <td style="font-size: 2em;">}</td> <td style="padding: 0 5px;">-</td> <td>Mode</td> </tr> </table> </p>	}	-	Mean	}	-	Median	}	-	Mode	<p>Cumulative Review and Enrichment</p>
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