

# INTEGRATING MATHEMATICS THEIR WAY WITH THE SUMMARY NEWSLETTER

TOPIC	MATHEMATICS THEIR WAY	SUMMARY NEWSLETTER
<b>Assessment</b>	<b>Chapter 4: Counting</b> <span style="float: right;"><b>90</b></span> Counting Forward <span style="float: right;">92</span> One-to-One Correspondence <span style="float: right;">92</span> Conservation of Number <span style="float: right;">100</span> Counting Backwards <span style="float: right;">113</span> Hiding Assessment <span style="float: right;">186</span> Interpreting Symbols (Visualization) <span style="float: right;">217</span>	<b>Chapter 3: Assessment</b> <span style="float: right;"><b>3.1</b></span> Why Assess? <span style="float: right;">3.1</span> Assessment Limitations <span style="float: right;">3.2</span> Assessment Schedule <span style="float: right;">3.2</span> Administering <span style="float: right;">3.4</span> Assessment Packet <span style="float: right;">3.5</span> After Assessing the Class <span style="float: right;">3.6</span> Assessment Descriptions <span style="float: right;">3.7</span> Counting by Rote <span style="float: right;">3.7</span> One-to-One Correspondence <span style="float: right;">3.7</span> Instant Recognition <span style="float: right;">3.8</span> Conservation of Number <span style="float: right;">3.9</span> Counting Backwards <span style="float: right;">3.10</span> Estimation of Objects <span style="float: right;">3.11</span> Numeral Recognition <span style="float: right;">3.11</span> Numeral Forms <span style="float: right;">3.12</span> Number Operations <span style="float: right;">3.13</span> Place Value <span style="float: right;">3.14</span> Teacher Reference Cards <span style="float: right;">1-9</span>
	<b>Mathematics Their Way Blacklines</b> Observation Sheets <span style="float: right;">I-IX</span> Assessment of Skills <span style="float: right;">A1-A16</span>	<b>Summary Newsletter Blacklines</b> Student Composite Sheet <span style="float: right;">#2</span> Class Composite Sheet <span style="float: right;">#3</span>
<b>Calendar (The Opening)</b>	<b>Mathematics Their Way Blacklines</b> Birthday Graph Picture <span style="float: right;">#25</span> Tooth Graph Picture <span style="float: right;">#26</span>	<b>Chapter 4: The Opening</b> <span style="float: right;"><b>4.1</b></span> How to Make the Opening Activities <span style="float: right;">4.2</span> Opening Procedure <span style="float: right;">4.8</span>
		<b>Summary Newsletter Blacklines</b> Weather Graph <span style="float: right;">#4</span>

**Appendix**

TOPIC	MATHEMATICS THEIR WAY	SUMMARY NEWSLETTER
<b>Counting</b>	<p><b>Chapter 4: Counting</b> <b>88</b></p> <p>Introduction 90</p> <p>Questions from Teachers 112</p> <p><b>Chapter 12: Pattern Book Experiments</b> <b>326</b></p>	<p><b>Chapter 5: Counting</b> <b>5.1</b></p> <p>How to Begin 5.3</p> <p>Group Counting Activities 5.3</p> <p>Counting Materials (Milk Carton Dice) 5.8</p>
<b>Graphing</b>	<p><b>Chapter 6: Graphing</b> <b>140</b></p> <p>Introduction 142</p> <p>Real Graphs 146</p> <p>Picture Graphs 148</p> <p>Symbolic Graphs 152</p> <p>Applications and Extensions 155</p> <p>Questions from Teachers 158</p>	<p><b>Chapter 8: Organizing Information</b> <b>8.8</b></p> <p>How to Begin 8.8</p> <p>Graphing Experiences 8.9</p> <p>Additional Graphing Experiences 8.10</p> <p>Graphing Materials 8.11</p>
<b>Learning Environment</b>	<p><b>Chapter 1: Free Exploration</b> <b>2</b></p> <p>Introducing Materials 2</p> <p>Storage 4</p> <p>Establishing Ground Rules 5</p> <p>Questions from Teachers 14</p>	<p><b>Chapter 1: Learning Environment</b> <b>1.1</b></p> <p>Setting the Tone for Questions 1.4</p> <p>Kinds of Math Their Way Activities 1.5</p> <p>    Whole Class/Small Group Lessons 1.6</p> <p>    Tubbing Stations 1.8</p> <p>        Teacher's Role 1.9</p> <p>        Record Keeping 1.9</p> <p>        Tubbing Station Management 1.10</p> <p>        Introduction to the Tubs 1.12</p> <p>        Free Exploration Experiences 1.14</p> <p>        Reproducing and Recording Designs 1.15</p> <p>        Free Exploration Station Sheets 1.19</p> <p><b>Chapter 12: Integrating Mathematics</b> <b>12.1</b></p> <p>Seasonal Ideas 12.2</p> <p>Songs and Rhymes 12.8</p> <p>Children's Literature 12.9</p> <p><b>Summary Newsletter Blacklines</b></p> <p>Blank Tubbing Sheet #1</p> <p>General Materials Labels #50</p> <p>Classroom Supply Labels #51</p> <p>Number Station Labels #52</p>

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<p><b>Measurement</b></p>	<p><b>Chapter 5: Comparing</b> <b>114</b></p> <p>Introduction 116</p> <p>Applications and Extensions 123</p> <p>Questions from Teachers 138</p> <p><b>Mathematics Their Way Blacklines</b></p> <p>Water Timer &amp; Measuring Strings #22</p> <p>Measuring with Jars #23</p> <p>Hole in the Box #23</p> <p>More-Less-Same (Fishing) Pictures #24</p>	<p><b>Chapter 7: Measurement</b> <b>7.1</b></p> <p>Nonstandard Measurement 7.1</p> <p>How to Begin 7.3</p> <p>Measurement Materials 7.4</p> <p>Quantity (Solids and Liquids) 7.6</p> <p>Quantity (Counting Objects) 7.11</p> <p>Weight 7.15</p> <p>Linear 7.18</p> <p>Time 7.21</p> <p>Money 7.25</p> <p><b>Summary Newsletter Blacklines</b></p> <p>Weighing with Scales #11</p> <p>Scoopfuls #12</p> <p>Calibrated Jar #13</p> <p>Estimating Objects in a Container #14</p> <p>More-Less-The Same (Hands) Cards #53</p>
	<p><b>Number Operations</b></p>	<p><b>Chapter 7: Number (Concept Level)</b> <b>164</b></p> <p>Introduction 166</p> <p>Group Activities 179</p> <p>    Applications and Extensions 179</p> <p>Questions from Teachers 210</p> <p>Number Stations (Concept Level) 168</p> <p>Questions from Teachers 210</p> <p><b>Chapter 8: Number (Connecting Level)</b> <b>214</b></p> <p>Introduction 216</p> <p>Applications and Extensions 221</p> <p><b>Chapter 9: Number (Symbolic Level)</b> <b>236</b></p> <p>Introduction 236</p> <p>Independent Activities 237</p> <p>Applications and Extensions 242</p> <p>Questions from Teachers 250</p> <p><b>Chapter 12: Pattern Book Experiments</b> <b>326</b></p>



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<p><b>Pattern</b></p>	<p><b>Chapter 2: Pattern One</b> <b>18</b>                      Introduction 19                      Applications and Extensions 32                      Questions from Teachers 52</p> <p><b>Chapter 10: Pattern Two</b> <b>252</b>                      Questions from Teachers 272</p> <p><b>Chapter 12: Pattern Book Experiments</b> <b>326</b></p> <p><b>Mathematics Their Way Blacklines</b>                      Snap &amp; Clap Pattern Pictures #7                      Names / Numbered Squares Sheet #54                      Large Surrounding Pattern Grid #55</p>	<p><b>Chapter 9: Pattern</b> <b>9.1</b>                      How to Begin 9.2                      Whole Group Activities 9.3                      Pattern Station Activities 9.4                      Pattern Tubbing Stations 9.5                      Pattern Extension Activities 9.7                      Symmetrical Patterns 9.7                      Surrounding Patterns 9.10                      Pattern Materials 9.13</p> <p><b>Summary Newsletter Blacklines</b>                      Large Snap &amp; Clap Cards #15                      Surrounding Pattern Base Samples #16                      Small Surrounding Pattern Grid #17                      Student Dot Strips #48-49</p>
	<p><b>Place Value</b></p>	<p><b>Chapter 11: Place Value</b> <b>274</b>                      Introduction (Group Lessons) 276                      Using Other Bases 276                      Applications and Extensions 305                      Base Ten Activities 307                      Questions from Teachers 324</p> <p><b>Mathematics Their Way Blacklines</b>                      Small Group and Independent Activities                      Large 0-99 Matrix #56                      Small 0-99 Matrices #57                      Two Column Place Value Strips #60                      Place Value Station Recording Papers                      Determining Prices / #59                      The Store #59                      Unifix Stacks #61</p>



# MATHEMATICS THEIR WAY MATERIALS DIRECTORY

Key Math Their Way materials and page references are listed alphabetically by content area.

MATERIALS	MATHEMATICS THEIR WAY		SUMMARY NEWSLETTER	
	Making Directions	Related Activities	Making Directions	Related Activities
<b>Assessment Materials</b> Assessment Materials		90-92, 100, 113, 186	3.5	3.7-3.17
<b>Calendar (Opening)</b> Materials			4.2-4.7	4.8-4.14
<b>Counting</b> Capture Grid Counting Tape Milk Carton Dice My Turn/Your Turn (floor game) Pendulum Piggy Bank	223, 195 360  231 95 101	223, 195 94 231 231 95 101	5.8	
<b>General Materials</b> (Materials used in more than one content area) Beans (e.g., kidney, lima...) Chalkboards (individual) Colored Macaroni Geoboards Geobands (small and large) Junk (a variety of kinds) Junk Boxes Margarine Tubs (small and large) Pattern Blocks Pattern Block Shapes Pattern Block Templates	  42 361 361 362 362  363 387 361	  289-294 47 42 17, 48, 80-82, 130, 176, 260 17, 48, 80-82, 130 85-87, 142, 164-165, 175, 199-201 182 13, 17, 170, 349 17, 38, 177, 350 17, 350	6.9     8.12	3.5, 7.5-7.14, Chapter 11 6.3, 10.5-10.6, 10.9  1.15-1.17, 1.20 1.15-1.17, 1.20 1.21, 5.4-5.5, 8.3-8.6 8.3-8.6 1.19-1.20, 9.4, 9.7-9.8, 10.25

Appendix

MATERIALS	MATHEMATICS THEIR WAY		SUMMARY NEWSLETTER	
	Making Directions	Related Activities	Making Directions	Related Activities
<b>General Materials (continued)</b>				
Parent Newsletter		398-399		2.2-2.3
Photocopied Pictures	365, 387	38, 152, 219, 332, 342	2.3	
Plain Wooden Cubes	365	173, 197, 207, 267-269		1.19
Portion Cups	360	171, 200, 289-294		3.5, 7.11-7.14, Chapter 11
Station Labels			1.11	
Supply Labels		4	1.11, NL, BL #50-52	
Station Tubs			1.11-1.12	1.10, 1.12-1.13
Tiles	360	169, 198, 261-264, 273		1.19
Tile Shapes		177, 359		1.19, 10.21
Tile Templates	361	359		
Toothpicks (plain, flat)		168	10.18	1.20, 1.19-10.21
Unifix Cubes	365	26-28, 127, 172, 202, 227, 267-270 278, 288, 345		1.8, 1.19, 9.3
Work Spaces	365	185, 207-208, 223		5.4
<b>Measurement</b>				
Calibrated Jar			7.29	7.6
Common Objects	360	132		7.15-7.16
Duration Cards		124, 247	7.29	7.22
Egg Cartons	361	116, 125		
Funnels			7.30	7.6-7.10
"Hole in the Box" Boxes	129	129		
Jars / Containers	362	131, 136	7.4	7.5-7.14
Measurement Materials to Collect	362		7.4-7.5	
Measuring Strings	135	135		
Milk Carton Scales	362	9, 132	7.30	7.14-7.16
More or Less Spinner	363	127-128	7.31	
More/Less/The Same Cards	363, MTW,BL #24		NL, BL #53	
String Sticks			7.30	7.18, 12.3
Teeter-Totter	122	122		
Things in the Room Cards	364	117		
Water Timer Lids	123	123-124		



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	Making Directions	Related Activities	Making Directions	Related Activities
<b>Number Operations</b>				
Cave Cards		192-193	10.22	10.10
Crazy Mixed Up Number Cards	228	228		
Equation Dice Toss Dice	244		10.11	10.11, NL BL #20
Jewels	361	171		10.21
Junkjobs Cards (addition and subtraction)			10.22	10.7-10.9
Listen & Count Dice		190	10.10	10.10
Magic Box	362	248-249	10.22	10.11
Magic Box Cards	362	248-249	10.22	
Number Books		219-220	10.19	10.19
Number Station Range Cards			10.17	10.17
Pattern Block/Tile Templates	364			
The Store	225	225		10.17
Subtraction Flips	364	194, 238	10.23	
Subtraction /Addition Equation Cards			10.23	10.5-10.10
Three Game Materials (Connecting Level)	393	221-222		
Two-sided Beans	364	174, 209		
<b>Numeral Recognition and Writing</b>				
Chalkboards (individual )			6.9	6.3, 10.5-10.6, 10.9
Clay Recipe		46	6.8	6.4
Cookie Dough Numeral Recipe		46	6.7	6.4
Dot-to-Dot	361	49	6.11	6.6
Geoboard Numerals	48		6.10	6.5
Large Purple & Green Numerals	44	44-45	6.8	6.2
My Turn, Your Turn Game Board	363		6.9	6.5
Number Line (1-10)	363	50		6.6
Numeral Cards			6.8	6.8
Numeral Dice Toss			6.7	6.7
Numeral Sequence Cards	363	47	6.9	
Numeral Sequences Dice		248	6.7	6.7
Numeral Templates			6.10	6.6

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	Making Directions	Related Activities	Making Directions	Related Activities
<b>Numeral Recognition and Writing</b>				
Numeral Writing Dice			6.10	6.7
Purple- Green Numeral Paper	338-389	51	6.11	6.6
Rub Over Numerals			6.8	6.4
Salt Box		47	6.10	6.5
Tic-Tac-Toe			6.6	
Yarn Numerals		128	6.4	6.4
<b>Organizing Information</b>				
Egg Carton Graphs		146	8.11	8.8
Geometric Shapes	361	71		
Geometric Shapes (Overhead)	361	59-60		
Graphing Plastic	361	146-150	8.11	1.5, 8.9
Milk Carton Graphing Boxes	362-363	143, 146, 149-151, 159	8.11	
Sorting Walk Book	72	72	8.3	8.2-8.3
Two Column Chart		152	8.11	8.11
<b>Pattern</b>				
Dot Pattern Cards	360	53, 55		9.5
Geoboard Sequence Cards	361	37		9.5
Geoboard-Unifix Cube Patterns		36	9.15	9.5
Junk Pattern Cards		40	9.14	9.4
Large Individual Snap / Clap Cards			9.16	9.4
Macaroni Necklace Patterns	42	42		
Material Squares	257	257		9.5
Mirrors		10	9.16	1.20, 9.4-9.5, 9.7-9.9
Pattern Block Walls		38-39	9.13	9.1, 9.4
Snap / Clap Cards	364, 388	33-34		9.4
Student Dot Strips	360	25, 35	9.16	
Surrounding Pattern Materials	395, MTW, BL #55		9.8	9.8
Teacher Dot Chart	360	23		1.7, 9.3

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	Making Directions	Related Activities	Making Directions	Related Activities
<b>Place Value</b>				
Magazine Pictures			11.19	11.19
Perimeter Papers	315	315		
Place Value Addition Board			11.18	
Place Value Board	364	Chapter 11	11.20	7.11-7.14, 11.9-11.19, 12.4
Place Value Dice			11.11	11.12
Place Value Number Flips	363	295-299, 303-304, 309-310	11.20	11.11
Star Worksheet			11.20, NL, BL #43	11.17
Store	317	317		
Unifix Stack Cards	320	320		