

CHAPTER 24

Integrated Lessons Chart

INTRODUCTION

The integrated lesson chart that follows represents a series of examples of how the lessons in this book may be fit into continuums. The center row of boxes in each three by five cluster of boxes represents a suggested sequence of lessons for the chapters on numbers and operations through Advanced Division. The top row represents a sequence of the activities in the chapters Sorting and Classifying through Coordinate Graphing. The bottom row represents activities meant to consume no more than about ten minutes a day, which complement the activities in one or the other of the first two rows.

The fifth column of boxes in each cluster represents a sequence of activities for both tangrams and fractions, which suggests each new lesson be presented a week apart, as opposed to the one-day intervals implied by the lessons across each row.

The integrated lesson chart is not meant to imply that lessons must be taught in a prescribed order or that a teacher is expected to teach three lessons in any one math period. The chart is not a quota or a schedule; it is only an example of one way the ideas in this book may be linked together either in separate continuums or in a total curriculum.

How the ideas in this book are introduced to a class is a decision to be made by each teacher. The integrated lesson chart is meant to be an *aid* in organizing the lessons.

Sorting and Classifying 13-1 190 Buttons	Sorting and Classifying 13-2 192 Buttons	Sorting and Classifying 13-3 192 Small Objects	Sorting and Classifying 13-4 192 Contents of Desk	Tangrams 20-1 276 Tangrams
Patterns with Tiles 3-1 17 Tiles	Patterns with Tiles 3-2 18 Tiles	Patterns with Tiles 3-3 19 Tiles	Patterns with Tiles 3-4 20 Tiles	Fractions 11-1 152 Geoboards
Patterns on Number Tables 2-1 5 0-99 Matrix	Patterns on Number Tables 2-2 7 0-99 Matrix Blank Matrix	Patterns on Number Tables 2-3 8 0-99 Matrix	Patterns on Number Tables 2-4 10 1-144 Matrix	

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Sorting and Classifying 13-5 193 Objects from Outside	Sorting and Classifying 13-6 193 People	Sorting and Classifying 13-7 193 People	Sorting and Classifying 13-8 194 Buttons	Tangrams 20-2 277 Tangrams
Patterns with Cubes 3-5 20 Cubes	Patterns with Cubes 3-6 20 Cubes	Patterns with Cubes 3-7 22 Cubes	Patterns with Cubes 3-8 22 Cubes	Fractions 11-2 153 Paper, Geoboards
Patterns on Number Tables 2-5 10 1-144 Matrix	Patterns on Number Tables 2-6 11 1-144 Matrix	Patterns on Number Tables 2-7 12 1-144 Matrix	Patterns on Number Tables 2-8 12 1-144 Matrix	

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Sorting and Classifying 13-9 194 Small Objects	Sorting and Classifying 13-10 194 Contents of Desk	Sorting and Classifying 13-11 195 Buttons	Sorting and Classifying 13-12 195 Buttons	Tangrams 20-3 278 Tangrams Task Cards
Patterns with Cubes 3-9 22 1-144 Matrix	Beginning Addition and Subtraction 4-1 26 Tiles	Beginning Addition and Subtraction 4-2 28 Tiles	Beginning Addition and Subtraction 4-3 28 Tiles	Fractions 11-3 154 Geoboards
Patterns on Number Tables 2-9 13 1-144 Matrix	Patterns on Number Tables 2-10 13 1-144 Matrix	Patterns on Number Tables 2-11 14 Any Matrix	People and Words 7-1 63 People	

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Sorting and Classifying 13-13 196 Small Objects	Sorting and Classifying 13-14 196 Contents of Desks	Sorting and Classifying 13-15 197 Objects from Outside	Sorting and Classifying 13-16 197 People	Tangrams 20-3 278 - Repeat -
Beginning Addition and Subtraction 4-4 29 Tiles	Beginning Addition and Subtraction 4-5 30 Tiles	Beginning Addition and Subtraction 4-6 30 Tiles	Beginning Addition and Subtraction 4-7 31 Tiles	Fractions 11-4 155 Geoboards
People and Words 7-2 63 People	People and Words 7-3 63 People	People and Words 7-4 64 People	People and Words 7-5 65 People and Objects	

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Sorting and Classifying 3-17 490 Buttons Sorting Tree	Sorting and Classifying 3-18 493 Small Objects Sorting Tree	Sorting and Classifying 3-19 494 Contents of Desks Sorting Tree	Sorting and Classifying 3-20 495 Objects from Outside Sorting Tree	Tangrams 20-3 278 - Repeat -
Beginning Addition and Subtraction 4-8 32 Tiles	Beginning Addition and Subtraction 4-9 32 Tiles	Beginning Addition and Subtraction 4-10 33 Tiles	Beginning Addition and Subtraction 4-11 33 Tiles	Fractions 11-5 156 Geoboards
People and Words 7-6 65 People and Objects	People and Words 7-7 66 People and Objects	People and Words 7-8 66 Words	People and Words 7-9 67 Words	

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Sorting and Classifying 13-21 199 People Sorting Tree	Measurement 14-1 206 People	Measurement 14-2 207 People	Measurement 14-3 208 People	Tangrams 20-3 278 - Repeat -
Beginning Addition and Subtraction 4-12 34 Cubes	Beginning Addition and Subtraction 4-13 35 Cubes	Beginning Addition and Subtraction 4-13 35 Cubes	Beginning Multiplication 5-1 38 Tiles	Fractions 11-6 157 Geoboards
Sorting and Classifying 3-22 498 People	People and Words 7-10 67 Words	Sorting and Classifying 13-23 201 People	People and Words 7-11 68 Words	

Measurement	Measurement	Measurement	Measurement	Tangrams
14-4 209 People	14-5 210 People	14-6 211 People	14-7 211 People	20-3 278 - Repeat -
Beginning Multiplication 5-2 39 Tiles	Beginning Multiplication 5-3 39 Tiles	Beginning Multiplication 5-4 40 Tiles	Beginning Multiplication 5-5 40 Tiles	Fractions 11-7 158 Geoboards
Sorting and Classifying 13-2 192 People	People and Words 7-12 68 Words	Sorting and Classifying 13-25 202 People	People and Words 7-13 68 Words	

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Measurement	Measurement	Measurement	Measurement	Tangrams
14-8 212 People	14-9 212 People	14-10 214 People	14-11 214 Desks	11-3 154 - Repeat -
Beginning Multiplication 5-6 42 Tiles	Beginning Multiplication 5-7 42 Beans and Cups	Beginning Multiplication 5-8 43 Beans and Cups	Beginning Multiplication 5-9 43 Beans and Cups	Fractions 11-8 158 Geoboards
Sorting and Classifying 13-26 202 People	People and Words 7-14 69 People and Objects	Sorting and Classifying 13-27 202 People	People and Words 7-15 69 People and Objects	

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Measurement	Measurement	Measurement	Measurement	Tangrams
14-12 215 Desks	14-13 216 'Same Size' Objects	14-14 216 Map	14-15 217 Map	20-3 278 - Repeat -
Beginning Multiplication 5-10 44	Beginning Multiplication 5-11 45	Beginning Multiplication 5-12 46	Beginning Multiplication 5-13 47	Fractions 11-9 159
Sorting and Classifying 13-28 203 People	People and Words 7-16 70 People and Objects	Sorting and Classifying 13-28 203 - Repeat -	People and Words 7-17 70 People and Objects	

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Measurement 14-16 217 Straws, Sticks, Cubes	Measurement 14-17 218 Toothpicks, Tiles, Paper	Graphing 15-1 222 Buttons	Graphing 15-2 223 People	Tangrams 20-3 278 - Repeat -
Beginning Multiplication 5-14 40 Crosslines	Beginning Division 6-1 51 Beans and Cups	Beginning Division 6-2 52 Beans and Cups	Beginning Division 6-3 53 Beans and Cups	Fractions 11-10 159 People
Sorting and Classifying 13-28 203 - Repeat -	People and Words 7-18 71 People and Objects	People and Words 7-19 71 People and Objects	People and Words 7-20 72 People and Objects	

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Graphing 15-3 224	Graphing 15-4 224	Graphing 15-5 225	Graphing 15-6 225	Tangrams 20-3 278
Beginning Division 6-4 53 Beans and Cups	Beginning Division 6-5 54 Beans and Cups	Beginning Division 6-6 55 Beans and Cups	Beginning Division 6-7 55 Tiles	Fractions 11-11 159 People
Sorting and Classifying 13-28 203 - Repeat -	People and Words 7-21 72 People and Objects	People and Words 7-22 73 Words	People and Words 7-23 74 Words	

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Graphing 15-7 226 "Name Boxes"	Graphing 15-8 226 "Name Boxes"	Graphing 15-9 227 "Name Boxes"	Graphing 15-10 227 "Name Boxes"	Tangrams 20-3 278 - Repeat -
Beginning Division 6-8 57 Tiles	Beginning Division 6-9 57 Tiles	Beginning Division 6-10 58 Crosslines	Beginning Division 6-11 59 Crosslines	Fractions 11-12 160 People
Sorting and Classifying 13-28 203 - Repeat -	People and Words 7-24 74 Words	People and Words 7-25 74 Words	People and Words 7-26 75 Words	

Graphing 15-11 228 Cubes	Graphing 15-12 229 Cubes	Graphing 15-13 230 Cubes	Graphing 15-14 231 Cubes	Tangrams 20-3 278 - Repeat -
Advanced Addition and Subtraction 8-1 81 Tiles and People	Advanced Addition and Subtraction 8-2 82 Beans and Cups	Advanced Addition and Subtraction 8-3 83 Beans and Cups	Advanced Addition and Subtraction 8-4 85 Beans and Cups	Fractions 11-13 160
Sorting and Classifying 13-28 203 - Repeat -	People and Words 7-27 75 Words	People and Words 7-28 76 Words	People and Words 7-29 76 Words	

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Graphing 15-15 231 Graph Paper	Graphing 15-16 232 Assorted Materials	Graphing 15-17 232 String	Graphing 15-18 233 Assorted Materials	Tangrams 20-3 278 - Repeat -
Advanced Addition and Subtraction 8-5 85 Beans and Cups	Advanced Addition and Subtraction 8-6 86 Beans and Cups	Advanced Addition and Subtraction 8-7 87 Beans, Cups, Bowls	Advanced Addition and Subtraction 8-8 88 Beans, Cups, Bowls	Fractions 11-14 161 Words
Sorting and Classifying 13-28 203 - Repeat -	People and Words 7-30 76 Words	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	

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Graphing 15-19 234 Assorted Materials	Metric Measurement 16-1 238 Metric Measuring Devices	Metric Measurement 16-1 238 - Repeat -	Metric Measurement 16-1 238 - Repeat -	Tangrams 20-3 278 - Repeat -
Advanced Addition and Subtraction 8-9 88 Beans, Cups, Bowls	Advanced Addition and Subtraction 8-10 89 Beans, Cups, Bowls	Advanced Addition and Subtraction 8-11 89 Beans, Cups, Bowls	Advanced Addition and Subtraction 8-12 91 Beans, Cups, Bowls	Fractions 11-15 161 Words
Sorting and Classifying 13-28 203 - Repeat -	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	

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Graphing 15-19 234 - Repeat -	Probability 17-1 243 Dice Game	Probability 17-2 244 Dice Game	Probability 17-3 244 Dice Game	Tangrams 20-3 278 - Repeat -
Advanced Addition and Subtraction 8-13 91 Beans, Cups, Bowls	Advanced Addition and Subtraction 8-14 92 Beans, Cups, Bowls	Advanced Addition and Subtraction 8-15 92 Beans, Cups, Bowls	Advanced Addition and Subtraction 8-16 94 Beans, Cups, Bowls	Fractions 11-16 162 Paper Folding
Sorting and Classifying 13-28 203 - Repeat -	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	

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Graphing 15-19 234 - Repeat -	Probability 17-4 245 "Coins"	Probability 17-5 246 "Coins"	Probability 17-6 247 "Coins"	Tangrams 20-3 278 - Repeat -
Advanced Addition and Subtraction 8-17 95 Beans, Cups, Bowls Tin Cans	Advanced Addition and Subtraction 8-18 96 Beans, Cups, Bowls Tin Cans	Advanced Addition and Subtraction 8-19 97 Beans, Cups, Bowls Tin Cans	Advanced Addition and Subtraction 8-20 97 Beans, Cups, Bowls Tin Cans	Fractions 11-17 163 Paper Folding
Sorting and Classifying 13-28 203 - Repeat -	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	

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Graphing 15-19 234 - Repeat -	Probability 17-7 247 "Coins"	Probability 17-8 247 "Coins"	Probability 17-9 248 Dice	Tangrams 20-3 278 - Repeat -
Advanced Addition and Subtraction 8-21 98 Beans, Cups, Bowls Tin Cans	Advanced Addition and Subtraction 8-22 99 Beans, Cups, Bowls Tin Cans	Advanced Addition and Subtraction 8-23 100 Beans, Cups, Bowls Tin Cans	Advanced Addition and Subtraction 8-24 101 Beans, Cups, Bowls Tin Cans	Fractions 11-18 164 Paper Folding
Sorting and Classifying 13-28 203 - Repeat -	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	

Graphing 15-19 234 - Repeat -	Probability 17-10 248 Dice	Probability 7-11 68 Dice	Probability 7-12 68 Dice	Tangrams 20-3 278 - Repeat -
Advanced Addition and Subtraction 8-25 101 Chips	Advanced Addition and Subtraction 8-26 103 Chips	Advanced Addition and Subtraction 8-27 104 Chips	Advanced Addition and Subtraction 8-28 104 Chips	Fractions 11-19 164 Paper Folding
Sorting and Classifying 13-28 203 - Repeat -	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	

Graphing 15-19 234 - Repeat -	Probability 17-13 168 Assorted Graphs	Coordinate Graphing 18-1 254 Number Machine	Coordinate Graphing 18-2 255 Number Machine	Tangrams 20-3 278 - Repeat -
Advanced Addition and Subtraction 8-29 105 Chips	Advanced Addition and Subtraction 8-30 105 Chips	Advanced Addition and Subtraction 8-31 106 Chips	Advanced Addition and Subtraction 8-32 107 Chips	Fractions 11-20 165 Cubes
Sorting and Classifying 13-28 203 - Repeat -	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	

Graphing 15-19 234 - Repeat -	Coordinate Graphing 18-3 256 Number Machine	Coordinate Graphing 18-4 256 "T"	Coordinate Graphing 18-5 257 Tic Tac Toe	Tangrams 20-3 278 - Repeat -
Advanced Addition and Subtraction 8-33 107 Chips	Advanced Addition and Subtraction 8-34 107 Chips	Advanced Addition and Subtraction 8-35 108 Chips	Advanced Addition and Subtraction 8-36 108 Chips	Fractions 11-21 166 Cubes
Sorting and Classifying 13-28 203 - Repeat -	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	

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Graphing 15-19 234 - Repeat -	Coordinate Graphing 18-6 259 Co-ord Graph	Coordinate Graphing 18-7 260 Co-ord Graph	Coordinate Graphing 18-8 261 Co-ord Graph	Tangrams 20-3 278 - Repeat -
Advanced Addition and Subtraction 8-37 109 Chips	Advanced Addition and Subtraction 8-38 110 Chips	Advanced Addition and Subtraction 8-39 110 Chips	Advanced Addition and Subtraction 8-40 110 Chips	Fractions 11-22 167 Start with—Go by
Sorting and Classifying 13-28 203 - Repeat -	Negative Numbers 19-1 268 Mail Carrier	Negative Numbers 19-2 269 Mail Carrier	People and Words 7-30 76 - Repeat -	

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Graphing 15-19 234 - Repeat -	Coordinate Graphing 18-9 262 Co-ord Graph	Coordinate Graphing 18-10 264 Co-ord Graph	Coordinate Graphing 18-10 264 - Repeat -	Tangrams 20-3 278 - Repeat -
Advanced Addition and Subtraction 8-41 111 Chips	Advanced Addition and Subtraction 8-42 111 Chips	Advanced Addition and Subtraction 8-43 111 Chips	Advanced Addition and Subtraction 8-44 112 Chips	Fractions 11-23 168 Start with—Go by Both
People and Words 7-30 76 - Repeat -	Negative Numbers 19-3 270 Mail Carrier	Negative Numbers 19-4 270 Tic Tac Toe	Decimals 12-1 178 Beans, Cups, Bowls Tin Cans	

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Graphing 15-19 234 - Repeat -	Coordinate Graphing 18-9 262 - Repeat -	Graphing 15-19 234 - Repeat -	Coordinate Graphing 18-10 264 - Repeat -	Tangrams 20-3 278 - Repeat -
Advanced Addition and Subtraction 8-45 112 Chips	Advanced Addition and Subtraction 8-46 112 Chips	Advanced Multiplication 9-1 116 Chips	Advanced Multiplication 9-2 117 Chips	Fractions 11-24 168 Start with—Go by Both
Sorting and Classifying 13-28 203 - Repeat -	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	Decimals 12-2 180 Beans, Cups, Bowls Tin Cans	

Graphing 15-19 234 - Repeat -	Coordinate Graphing 18-9 262 - Repeat -	Graphing 15-19 234 - Repeat -	Coordinate Graphing 18-10 264 - Repeat -	Tangrams 20-3 278 - Repeat -
Advanced Multiplication 9-3 118 Chips	Advanced Multiplication 9-4 119 Chips and Other Materials	Advanced Multiplication 9-5 119 Chips and Other Materials	Advanced Multiplication 9-6 120 Chips and Other Materials	Fractions 11-25 169 Cubes
Sorting and Classifying 13-28 203 - Repeat -	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	Decimals 12-3 76 Chips	

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Graphing 15-19 234 - Repeat -	Coordinate Graphing 18-9 262 - Repeat -	Graphing 15-19 234 - Repeat -	Coordinate Graphing 18-10 264 - Repeat -	Tangrams 20-3 278 - Repeat -
Advanced Multiplication 9-7 120 "Boxes"	Advanced Multiplication 9-8 124 "Boxes"	Advanced Multiplication 9-9 125 "Boxes"	Advanced Multiplication 9-10 126 "Boxes"	Fractions 11-26 170 Cubes and Other Materials
Sorting and Classifying 13-28 203 - Repeat -	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	Decimals 12-5 182 Chips	

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Graphing 15-19 234 - Repeat -	Coordinate Graphing 18-9 262 - Repeat -	Graphing 15-19 234 - Repeat -	Coordinate Graphing 18-10 264 - Repeat -	Tangrams 20-3 278 - Repeat -
Advanced Multiplication 9-11 126 "Boxes"	Advanced Multiplication 9-12 127 "Boxes"	Advanced Multiplication 9-13 129 "Boxes"	Advanced Multiplication 9-14 129 "Boxes"	Fractions 11-27 170 Geoboards
Sorting and Classifying 13-28 203 - Repeat -	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	Decimals 12-5 182 Chips	

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Graphing 15-19 234 - Repeat -	Coordinate Graphing 18-9 262 - Repeat -	Graphing 15-19 234 - Repeat -	Coordinate Graphing 18-10 264 - Repeat -	Tangrams 20-3 278 - Repeat -
Advanced Multiplication 9-15 129 "Boxes"	Advanced Multiplication 9-16 130 "Boxes"	Advanced Multiplication 9-17 130 "Boxes"	Advanced Multiplication 9-18 130 "Boxes"	Fractions 11-28 171 Geoboards
Sorting and Classifying 13-28 203 - Repeat -	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	Decimals 12-6 183 Chips	

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Graphing 15-19 234 - Repeat -	Coordinate Graphing 18-9 262 - Repeat -	Graphing 15-19 234 - Repeat -	Coordinate Graphing 18-10 264 - Repeat -	Tangrams 20-3 278 - Repeat -
Advanced Division 10-1 134 Beans, Cups, Bowls	Advanced Division 10-2 135 Beans, Cups, Bowls	Advanced Division 10-3 135 Beans, Cups, Bowls	Advanced Division 10-4 136 Beans, Cups, Bowls	Fractions 11-29 172 Geoboards
Sorting and Classifying 13-28 203 - Repeat -	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	Decimals 12-7 184 Chips	

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Problem Solving 21-1 283 Student Selected Materials	Problem Solving 21-1 283 - Repeat -	Problem Solving 21-1 283 - Repeat -	Problem Solving 21-1 283 - Repeat -	Tangrams 20-3 278 - Repeat -
Advanced Division 10-5 137 Beans, Cups, Bowls	Advanced Division 10-6 139 Chips	Advanced Division 10-7 138 Chips	Advanced Division 10-8 138 Chips	Fractions 11-30 173 Geoboards
Sorting and Classifying 13-28 203 - Repeat -	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	Decimals 12-8 185 10 X 10 Matrix	

Problem Solving 21-1 283 - Repeat -	Problem Solving 21-1 283 - Repeat -	Problem Solving 21-1 283 - Repeat -	Problem Solving 21-1 283 - Repeat -	Tangrams 20-3 278 - Repeat -
Advanced Division 10-9 140 Chips	Advanced Division 10-10 140 Chips	Advanced Division 10-11 140 Long Division	Advanced Division 10-12 142 Long Division	Fractions 11-31 174 Geoboards
Sorting and Classifying 13-28 203 - Repeat -	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	Decimals 12-9 186 100 X 100 Matrix	

Problem Solving 21-1 283 - Repeat -	Problem Solving 21-1 283 - Repeat -	Problem Solving 21-1 283 - Repeat -	Problem Solving 21-1 283 - Repeat -	Tangrams 21-1 283 - Repeat -
Advanced Division 10-13 143 Long Division	Advanced Division 10-14 146 Long Division	Advanced Division 10-15 146 Long Division	Advanced Division 10-16 147 Long Division	Problem Solving 21-1 283 - Repeat -
Sorting and Classifying 13-28 203 - Repeat -	People and Words 7-30 76 - Repeat -	People and Words 7-30 76 - Repeat -	Decimals 12-10 187 10 X 100 Matrix	

Problem Solving 21-1 283 - Repeat -	Problem Solving 21-1 283 - Repeat -	Problem Solving 21-1 283 - Repeat -	Problem Solving 21-1 283 - Repeat -	Problem Solving 21-1 283 - Repeat -
Advanced Division 10-17 147 Long Division	Advanced Division 10-18 148 Long Division	Advanced Division 10-19 148 Long Division	Problem Solving 21-1 283 - Repeat -	Problem Solving 21-1 283 - Repeat -
Problem Solving 21-1 283 - Repeat -	Problem Solving 21-1 283 - Repeat -	Problem Solving 21-1 283 - Repeat -	Problem Solving 21-1 283 - Repeat -	

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