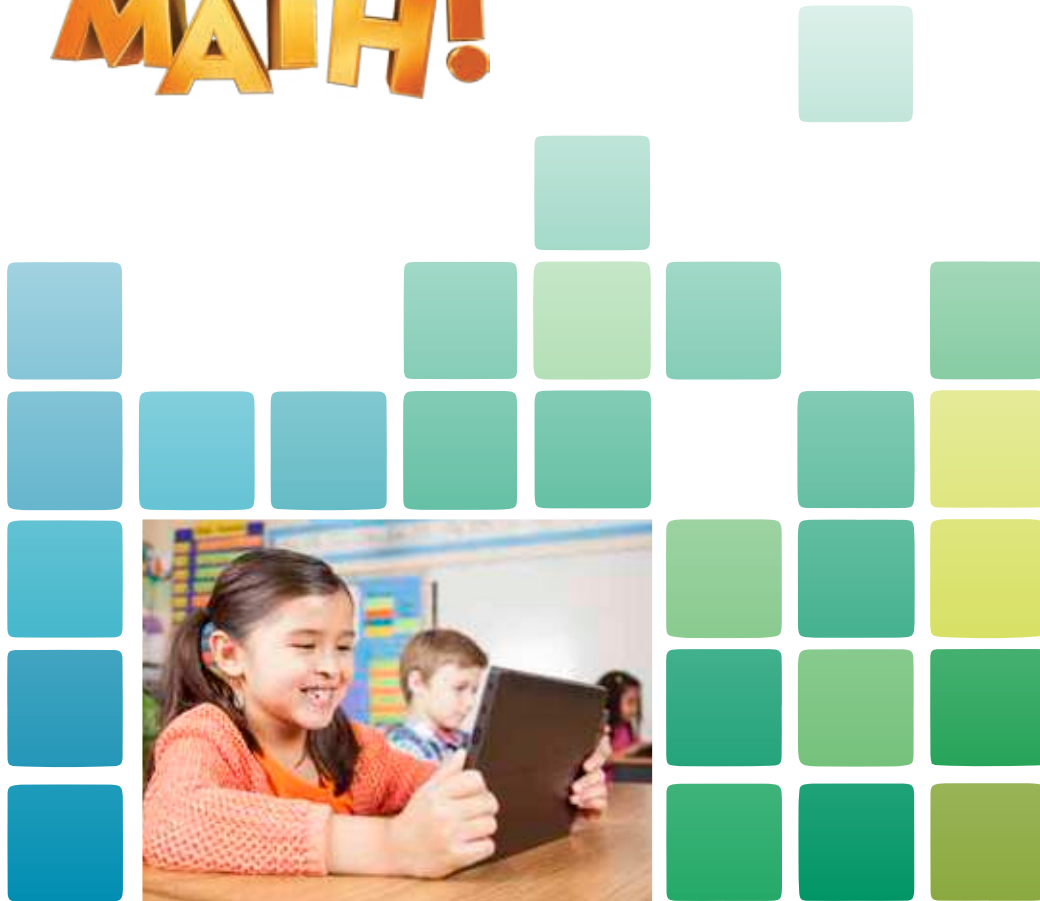
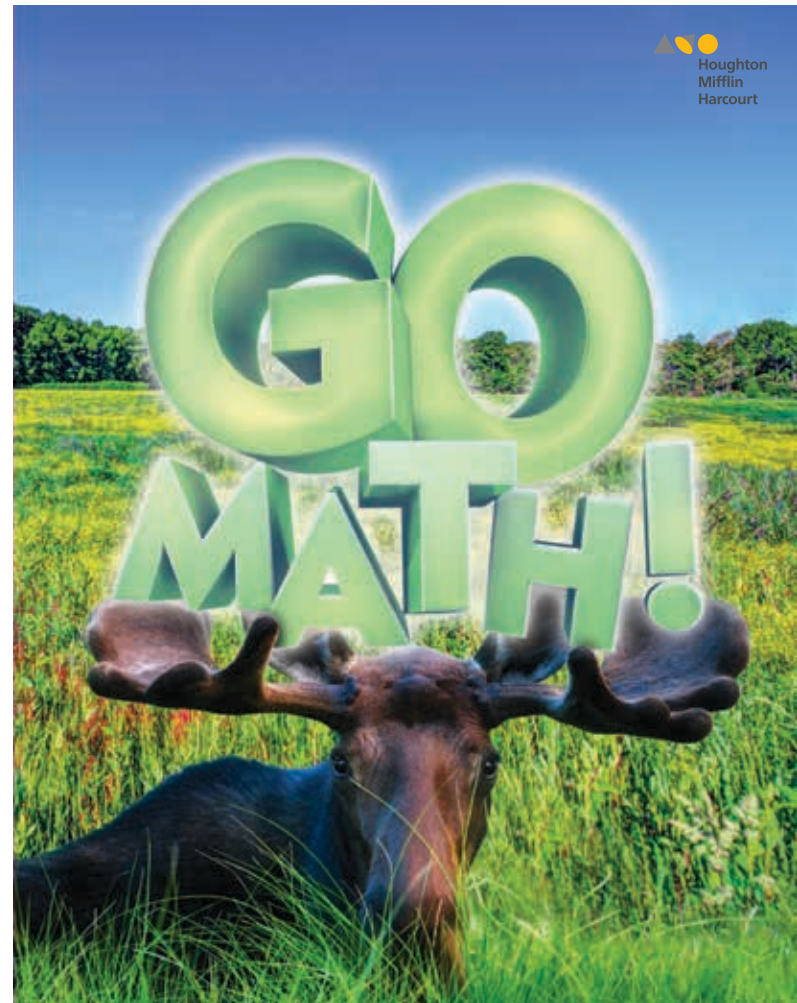


## Parent's Guide to *GO Math!* Technology Correlation



Grade 3



Not sure how to help your child with homework? Looking for extra practice to help your child succeed? **GO Math!**<sup>®</sup> Grade 3 has a variety of resources that can help you understand lesson content and provide your child with educational opportunities online.

These resources can be accessed through your child's ThinkCentral account. After logging in, click on Student Library and you'll find the resources described below. The items in the Student Library are for practice at any time. Usage and results are not sent to the teacher. Make sure you also check your child's To Do list, which may contain assignments from the teacher that will send results to the teacher.

### **Interactive Student Edition**

These activities explain the content of the lesson using a few examples. The last two screens offer practice problems from the **Personal Math Trainer**<sup>®</sup> Powered by Knewton<sup>™</sup>.

### **Math on the Spot**

These videos feature a **GO Math!** author discussing lesson content and solving a problem that exemplifies lesson content. They can also be accessed via the QR codes in the print student book.

### **Animated Math Models**<sup>\*</sup>

These mini-lessons focus on a specific skill that relates to the lesson.

### **iTools**<sup>\*</sup>

These virtual manipulatives may be used in the classroom to help students model and discuss problems in the lesson.

### **Mega Math**<sup>\*</sup>

This game-like environment will challenge students to answer questions related to the lesson content.

*<sup>\*</sup>These online resources require Flash.*

## Chapter 1: Addition and Subtraction Within 1,000

| Lesson Number | Lesson Title                                     | Interactive Student Edition | Math on the Spot Video | Animated Math Models                        |              | iTools   | Mega Math   | Vocabulary  |
|---------------|--|-----------------------------|------------------------|---|--------------|--|---|---|
|               |  |                             |                        | Activity Name                               | Skill Number |  |   |   |
| 1             | Algebra • Number Patterns                        | ✓                           | ✓                      |   |              | Number Charts—<br>Activity 1: Hundred Chart<br>(Show Patterns) | Country Countdown, Block Busters, Level C   | Pattern, Identity<br>Property of Addition,<br>Commutative Property of Addition, even, odd |
| 2             | Round to the Nearest Ten or Hundred              | ✓                           | ✓                      | Round to Nearest Ten, Hundred, and Thousand | 1            |  | Numberopolis, Cross Town Number Line, Level U<br>Fraction Action, Number Line Mine, Level C | Round   |
| 3             | Estimate Sums                                    | ✓                           | ✓                      | Estimate Sums                               | 2            |  |   | Estimate, compatible numbers  |
| 4             | Mental Math Strategies for Addition              | ✓                           | ✓                      |   |              | Number Lines—<br>Activity 5: Explore                           |   |   |
| 5             | Algebra • Use Properties to Add                  | ✓                           | ✓                      |   |              |  |   | Associative Property of Addition  |
| 6             | Use the Break Apart Strategy to Add              | ✓                           | ✓                      |   |              | Base-Ten Blocks—<br>Activity 3: Add (Hundreds)                 | Country Countdown, Block Busters, Levels U and V  |   |
| 7             | Use Place Value to Add                           | ✓                           | ✓                      | Addition With Regrouping Up To 3-Digits     | 3            |  |   | Regroup   |
| 8             | Estimate Differences                             | ✓                           | ✓                      | Estimate Differences                        | 4            |  |   |   |
| 9             | Mental Math Strategies for Subtraction           | ✓                           | ✓                      |   |              | Number Lines—<br>Activity 5: Explore                           |   |   |
| 10            | Use Place Value to Subtract                      | ✓                           | ✓                      | Subtract 3-Digit Numbers                    | 5            | Base-Ten Blocks—<br>Activity 4: Subtract (Hundreds)            | Country Countdown, Block Busters, Levels X and Y  |   |
| 11            | Combine Place Values to Subtract                 | ✓                           | ✓                      |   |              |  |   |   |
| 12            | Problem Solving • Model Addition and Subtraction | ✓                           | ✓                      |   |              |  |   |   |

## Chapter 2: Represent and Interpret Data

| Lesson Number | Lesson Title                    | Interactive Student Edition | Math on the Spot Video | Animated Math Models          |              | iTools                               | Mega Math  | Vocabulary   |
|---------------|---------------------------------|-----------------------------|------------------------|-------------------------------|--------------|--------------------------------------|--|--|
|               |                                 |                             |                        | Activity Name                 | Skill Number |                                      |  |  |
| 1             | Problem Solving • Organize Data | ✓                           | ✓                      | Collect Data                  | 6            |                                      |  | Frequency table, data, tally table                         |
| 2             | Use Picture Graphs              | ✓                           | ✓                      |                               |              | Graphs—Activity 4: Pictograph        | The Number Games, ArachnaGraph, Level A<br>Country Countdown, White Water Graphing, Levels C and E | Key, picture graph   |
| 3             | Make Picture Graphs             | ✓                           | ✓                      | Pictographs                   | 7            |                                      | Country Countdown, White Water Graphing, Level D   | Experiment, survey   |
| 4             | Use Bar Graphs                  | ✓                           | ✓                      | Read a Bar Graph              | 8            |                                      | The Number Games, ArachnaGraph, Level B  | Bar graph, scale, horizontal bar graph, vertical bar graph |
| 5             | Make Bar Graphs                 | ✓                           | ✓                      | Make and Interpret Bar Graphs | 9            | Graphs—Activity 1: Bar Graph (Basic) | Country Countdown, White Water Graphing, Level F<br>The Number Games, ArachnaGraph, Level C        |  |
| 6             | Solve Problems Using Data       | ✓                           | ✓                      |                               |              |                                      | The Number Games, ArachnaGraph, Level B  | Skip count   |
| 7             | Use and Make Line Plots         | ✓                           | ✓                      |                               |              | Graphs—Activity 5: Line Plot         | The Number Games, ArachnaGraph, Level E  | Line plot  |

## Chapter 3: Understand Multiplication

| Lesson Number | Lesson Title                                     | Interactive Student Edition | Math on the Spot Video | Animated Math Models                        |              | iTools  | Mega Math  | Vocabulary   |
|---------------|--|-----------------------------|------------------------|---|--------------|---|--|--|
|               |  |                             |                        | Activity Name                               | Skill Number |   |  |  |
| 1             | Count Equal Groups                               | ✓                           | ✓                      | Algebra: Relate Addition and Multiplication | 10           | Counters—Activity 5: Multiply<br>Number Lines—Activity 3: Skip Count<br>Number Lines—Activity 4: Multiply | Country Countdown, Counting Critters, Level V<br>Numberopolis, Carnival Stories, Level S | Equal groups   |
| 2             | Algebra • Relate Addition and Multiplication     | ✓                           | ✓                      |   |              | Counters—Activity 5: Multiply<br>Number Lines—Activity 4: Multiply  | Country Countdown, Counting Critters, Level V  | Multiply, factor, product, addition                                  |
| 3             | Skip Count on a Number Line                      | ✓                           | ✓                      | Multiply with 3                             | 11           | Number Lines—Activity 4: Multiply<br>Number Lines—Activity 5: Explore                                     | Numberopolis, Cross Town Number Line, Levels K, Q, & R                                   |  |
| 4             | Problem Solving • Model Multiplication           | ✓                           | ✓                      |   |              | Counters—Activity 5: Multiply   | Country Countdown, Counting Critters, Level W  |  |
| 5             | Model with Arrays                                | ✓                           | ✓                      | Algebra: Model with Arrays                  | 12           |   |  | Number Charts—Activity 3: Multiplication Chart                       |
| 6             | Algebra • Commutative Property of Multiplication | ✓                           | ✓                      |   |              | Commutative Property of Multiplication  |  |  |
| 7             | Algebra • Multiply with 1 and 0                  | ✓                           | ✓                      | Multiply with 1 and 0                       | 13           | Number Lines—Activity 4: Multiply   | The Number Games, Up, Up, and Array, Levels A and C                                      | Identity Property of Multiplication, Zero Property of Multiplication |

## Chapter 4: Multiplication Facts and Strategies

| Lesson Number | Lesson Title                                     | Interactive Student Edition | Math on the Spot Video | Animated Math Models               |              | iTools   | Mega Math   | Vocabulary                             |
|---------------|--|-----------------------------|------------------------|------------------------------------|--------------|--|---|--|
|               |  |                             |                        | Activity Name                      | Skill Number |  |   |  |
| 1             | Multiply with 2 and 4                            | ✓                           | ✓                      | Multiplication with 0, 1, 2, and 4 | 14           | Base-Ten Blocks—Activity 5: Multiply<br>Counters—Activity 5: Multiply<br>Number Lines—Activity 4: Multiply           |   | factor, product                        |
| 2             | Multiply with 5 and 10                           | ✓                           | ✓                      | Multiply with 2 and 5              | 15           | Counters—Activity 5: Multiply<br>Number Lines—Activity 4: Multiply   | Country Countdown, Counting Critters, Level Z<br>The Number Games, Up, Up, and Array, Levels A and I<br>Numberopolis, Carnival Stories, Level S | Multiple                               |
| 3             | Multiply with 3 and 6                            | ✓                           | ✓                      | Multiply with 3, 5, 6, and 10      | 16           | Counters—Activity 5: Multiply<br>Number Lines—Activity 4: Multiply<br>Number Charts—Activity 3: Multiplication Chart | The Number Games, Up, Up, and Array, Level A<br>Numberopolis, Carnival Stories, Level S   |  |
| 4             | Algebra • Distributive Property                  | ✓                           | ✓                      |                                    |              |  | Country Countdown, Counting Critters, Level W   | Distributive Property, addend, sum     |
| 5             | Multiply with 7                                  | ✓                           | ✓                      |                                    |              | Base-Ten Blocks—Activity 5: Multiply<br>Counters—Activity 5: Multiply  |   | Commutative Property of Multiplication |
| 6             | Algebra • Associative Property of Multiplication | ✓                           | ✓                      | Algebra: Multiply 3 Factors        | 17           |  |   | Associative Property of Multiplication |
| 7             | Algebra • Patterns on the Multiplication Table   | ✓                           | ✓                      |                                    |              | Number Charts—Activity 3: Multiplication Chart   |   | Even, odd                              |
| 8             | Multiply with 8                                  | ✓                           | ✓                      |                                    |              | Counters—Activity 5: Multiply<br>Number Lines—Activity 4: Multiply   | The Number Games, Up, Up, and Array, Level B  |  |
| 9             | Multiply with 9                                  | ✓                           | ✓                      | Multiply with 7, 8, and 9          | 18           | Base-Ten Blocks—Activity 5: Multiply<br>Counters—Activity 5: Multiply  | The Number Games, Up, Up, and Array, Level C  | Subtraction                            |
| 10            | Problem Solving • Multiplication                 | ✓                           | ✓                      |                                    |              |  | Ice Station Exploration, Arctic Algebra, Level D  |  |

## Chapter 5: Use Multiplication Facts

| Lesson Number | Lesson Title                                    | Interactive Student Edition | Math on the Spot Video | Animated Math Models     |              | iTools  | Mega Math  | Vocabulary   |
|---------------|---|-----------------------------|------------------------|--------------------------|--------------|---|--|--|
|               |   |                             |                        | Activity Name            | Skill Number |   |  |  |
| 1             | Algebra • Describe Patterns                     | ✓                           | ✓                      | Algebra: Find a Rule     | 19           |   | Ice Station Exploration, Arctic Algebra, Level D | Pattern  |
| 2             | Algebra • Find Unknown Factors                  | ✓                           | ✓                      | Algebra: Missing Factors | 20           | Number Charts—<br>Activity 3: Multiplication Chart                        | Ice Station Exploration, Arctic Algebra, Level C | Equation, array, Commutative Property of Multiplication, factor, product |
| 3             | Problem Solving • Use the Distributive Property | ✓                           | ✓                      |                          |              |   |  | Distributive Property  |
| 4             | Multiplication Strategies with Multiples of 10  | ✓                           | ✓                      |                          |              | Base-Ten Blocks—Activity 5: Multiply<br>Number Lines—Activity 4: Multiply |  | Multiple, place value, tens  |
| 5             | Multiply Multiples of 10 by 1-Digit Numbers     | ✓                           | ✓                      | Multiply by Tens         | 21           | Base-Ten Blocks—Activity 5: Multiply                                      | The Number Games, Up, Up, and Array, Level I     | Hundreds, ones   |

## Chapter 6: Understand Division

| Lesson Number | Lesson Title                                 | Interactive Student Edition | Math on the Spot Video | Animated Math Models                 |              | iTools  | Mega Math  | Vocabulary                          |
|---------------|--|-----------------------------|------------------------|--------------------------------------|--------------|---|--|-------------------------------------|
|               |  |                             |                        | Activity Name                        | Skill Number |   |  |                                     |
| 1             | Problem Solving • Model Division             | ✓                           | ✓                      |                                      |              | Counters—<br>Activity 6: Divide   | Country Countdown, Counting Critters, Level AA   |                                     |
| 2             | Size of Equal Groups                         | ✓                           | ✓                      | Model Division                       | 22           | Base-Ten Blocks—<br>Activity 6: Divide  | Country Countdown, Counting Critters, Level X<br>Numberopolis, Carnival Stories, Level T               | Divide, equal groups                |
| 3             | Number of Equal Groups                       | ✓                           | ✓                      |                                      |              | Counters—<br>Activity 5: Multiply   | Country Countdown, Counting Critters, Level Y<br>Numberopolis, Carnival Stories, Level U               |                                     |
| 4             | Model with Bar Models                        | ✓                           | ✓                      |                                      |              | Counters—<br>Activity 6: Divide<br>Base-Ten Blocks—<br>Activity 6: Divide             | Country Countdown, Counting Critters, Levels X and Y<br>Numberopolis, Carnival Stories, Levels T and U | Dividend, divisor, quotient         |
| 5             | Algebra • Relate Subtraction and Division    | ✓                           | ✓                      | Relate Division and Subtraction      | 23           | Base-Ten Blocks—<br>Activity 6: Divide  | The Number Games, Up, Up, and Array, Level E   |                                     |
| 6             | Investigate • Model with Arrays              | ✓                           | ✓                      |                                      |              | Counters—<br>Activity 1: Count  |  | Array                               |
| 7             | Algebra • Relate Multiplication and Division | ✓                           | ✓                      | Algebra: Multiplication and Division | 24           | Number Charts—<br>Activity 3: Multiplication Chart<br>Counters—<br>Activity 6: Divide |  | Inverse operations                  |
| 8             | Algebra • Write Related Facts                | ✓                           | ✓                      | Algebra: Fact Families               | 25           | Counters—<br>Activity 6: Divide   |  | Related facts, factor, product      |
| 9             | Algebra • Division Rules for 1 and 0         | ✓                           | ✓                      | Division Rules                       | 26           |   |  | Identity Property of Multiplication |



## Chapter 7: Division Facts and Strategies

| Lesson Number | Lesson Title                        | Interactive Student Edition | Math on the Spot Video | Animated Math Models  |              | iTools  | Mega Math  | Vocabulary                         |
|---------------|-------------------------------------|-----------------------------|------------------------|-----------------------|--------------|---|--|------------------------------------|
|               |                                     |                             |                        | Activity Name         | Skill Number |   |  |                                    |
| 1             | Divide by 2                         | ✓                           | ✓                      | Divide by 2 and 5     | 27           | Counters—Activity 6: Divide   | Ice Station Exploration, Arctic Algebra, Level E |                                    |
| 2             | Divide by 10                        | ✓                           | ✓                      |                       |              | Number Lines—Activity 5: Explore<br>Number Charts—Activity 3: Multiplication Chart                                | The Number Games, Up, Up, and Array, Level G     | Dividend, divisor, factor, product |
| 3             | Divide by 5                         | ✓                           | ✓                      | Divide by 2 and 5     | 27           | Number Lines—Activity 5: Explore<br>Counters—Activity 6: Divide   | Country Countdown, Counting Critters, Level AA   |                                    |
| 4             | Divide by 3                         | ✓                           | ✓                      | Divide by 3 and 4     | 28           | Number Lines—Activity 5: Explore<br>Counters—Activity 6: Divide<br>Number Charts—Activity 3: Multiplication Chart | The Number Games, Up, Up, and Array, Level E     | Array                              |
| 5             | Divide by 4                         | ✓                           | ✓                      |                       |              | Counters—Activity 5: Multiply<br>Counters—Activity 6: Divide<br>Number Charts—Activity 3: Multiplication Chart    |  |                                    |
| 6             | Divide by 6                         | ✓                           | ✓                      | Divide by 6, 7, and 8 | 29           | Counters—Activity 6: Divide<br>Number Charts—Activity 3: Multiplication Chart                                     | The Number Games, Up, Up, and Array, Level F     |                                    |
| 7             | Divide by 7                         | ✓                           | ✓                      |                       |              |   |  |                                    |
| 8             | Divide by 8                         | ✓                           | ✓                      |                       |              |   |  |                                    |
| 9             | Divide by 9                         | ✓                           | ✓                      |                       |              |   | The Number Games, Up, Up, and Array, Level G     |                                    |
| 10            | Problem Solving • Two-Step Problems | ✓                           | ✓                      |                       |              | Counters—Activity 6: Divide   |  |                                    |
| 11            | Investigate • Order of Operations   | ✓                           | ✓                      |                       |              | Counters—Activity 5: Multiply<br>Counters—Activity 6: Divide<br>Number Charts—Activity 3: Multiplication Chart    | Ice Station Exploration, Arctic Algebra, Level Q | Order of operations                |

## Chapter 8: Understand Fractions

| Lesson Number | Lesson Title   | Interactive Student Edition | Math on the Spot Video | Animated Math Models |              | iTools   | Mega Math  | Vocabulary   |
|---------------|--|-----------------------------|------------------------|----------------------|--------------|--|--|--|
|               |  |                             |                        | Activity Name        | Skill Number |  |  |  |
| 1             | Equal Parts of a Whole   | ✓                           | ✓                      | Equal Parts          | 30           | Fractions—Activity 1: Show (Fraction Circles)  |  | Whole, equal parts, halves, thirds, fourths, sixths, eighths |
| 2             | Equal Shares   | ✓                           | ✓                      |                      |              | Fractions—Activity 1: Show (Two-Color Counters)<br>Fractions—Activity 1: Show (Fraction Circles) | Fraction Action, Fraction Flare Up, Levels B and C   |  |
| 3             | Unit Fractions of a Whole                                      | ✓                           | ✓                      | Unit Fractions       | 31           | Fractions—Activity 1: Show (Fraction Circles)  | Shapes Ahoy! Ship Shapes, Levels R and S<br>Fraction Action, Fraction Flare Up, Level B            | Fraction, unit fraction                                      |
| 4             | Fractions of a Whole   | ✓                           | ✓                      | Part of a Whole      | 34           | Fractions—Activity 1: Show (Fraction Bars)   | Shapes Ahoy! Ship Shapes, Level T<br>Fraction Action, Fraction Flare Up, Level B                   | Numerator, denominator                                       |
| 5             | Fractions on a Number Line                                     | ✓                           | ✓                      |                      |              | Fractions—Activity 1: Show (Fraction Bars)   | Fraction Action, Number Line Mine, Level F   |  |
| 6             | Relate Fractions and Whole Numbers                             | ✓                           | ✓                      | Mixed Numbers        | 33           | Fractions—Activity 1: Show (Fraction Circles)<br>Fractions—Activity 1: Show (Fraction Bars)      |  | Fraction greater than 1                                      |
| 7             | Fractions of a Group   | ✓                           | ✓                      | Part of a Group      | 34           | Fractions—Activity 1: Show (Two-Color Counters)<br>Fractions—Activity 1: Show (Fraction Circles) | Fraction Action, Fraction Flare Up, Levels B and C<br>Shapes Ahoy! Ship Shapes, Levels R, S, and T |  |
| 8             | Find Part of a Group Using Unit Fractions                      | ✓                           | ✓                      |                      |              | Fractions—Activity 1: Show (Two-Color Counters)  | Fraction Action, Fraction Flare Up, Levels B and C   |  |
| 9             | Problem Solving<br>• Find the Whole Group Using Unit Fractions | ✓                           | ✓                      |                      |              | Fractions—Activity 1: Show (Fraction Bars)   |  |  |

## Chapter 9: Compare Fractions

| Lesson Number | Lesson Title                                | Interactive Student Edition | Math on the Spot Video | Animated Math Models   |              | iTools  | Mega Math   | Vocabulary   |
|---------------|---|-----------------------------|------------------------|------------------------|--------------|---|---|--|
|               |   |                             |                        | Activity Name          | Skill Number |   |   |  |
| 1             | Problem Solving • Compare Fractions         | ✓                           | ✓                      |                        |              |   |   | Compare, equal to ( $=$ ), greater than ( $>$ ), less than ( $<$ ) |
| 2             | Compare Fractions with the Same Denominator | ✓                           | ✓                      |                        |              | Number Lines—Activity 5: Explore (Fractions; Compare; Fraction Bars)                              | Fraction Action, Fraction Flare Up, Level F<br>Fraction Action, Number Line Mine, Level I | Denominator  |
| 3             | Compare Fractions with the Same Numerator   | ✓                           | ✓                      | Compare Unit Fractions | 36           | Fractions—Activity 2: Compare (Fraction Circles)<br>Fractions—Activity 2: Compare (Fraction Bars) | Shapes Ahoy, Ship Shapes, Level V   | Numerator  |
| 4             | Compare Fractions                           | ✓                           | ✓                      | Compare Fractions      | 35           | Fractions—Activity 2: Compare (Fraction Circles)  | Fraction Action, Fraction Flare Up, Level F<br>Fraction Action, Number Line Mine, Level I |  |
| 5             | Compare and Order Fractions                 | ✓                           | ✓                      |                        |              | Fractions—Activity 2: Compare (Fraction Bars)   |   | Order  |
| 6             | Investigate • Model Equivalent Fractions    | ✓                           | ✓                      | Equivalent Fractions   | 37           | Fractions—Activity 2: Compare (Fraction Circles)  | Fraction Action, Fraction Flare Up, Level D   | Equivalent fractions, equivalent                                   |
| 7             | Equivalent Fractions                        | ✓                           | ✓                      |                        |              | Fractions—Activity 2: Compare (Fraction Bars)   | Fraction Action, Number Line Mine, Level E  |  |

## Chapter 10: Time, Length, Liquid Volume, and Mass

| Lesson Number | Lesson Title                                | Interactive Student Edition | Math on the Spot Video | Animated Math Models        |              | iTools   | Mega Math   | Vocabulary   |
|---------------|---|-----------------------------|------------------------|-----------------------------|--------------|--|---|--|
|               |   |                             |                        | Activity Name               | Skill Number |  |   |  |
| 1             | Time to the Minute                          | ✓                           | ✓                      | Tell Time                   | 38           | Measurement—<br>Activity 3: Clocks<br>(Time on a Clock)  | Country Countdown,<br>Clock-a-Doodle-Do,<br>Level J   | Minute, analog clock,<br>digital clock, half hour,<br>hour, quarter hour |
| 2             | AM and PM                                   | ✓                           | ✓                      | AM and PM                   | 39           |  |   | Midnight, noon,<br>A.M., P.M.  |
| 3             | Measure Time Intervals                      | ✓                           | ✓                      | Model Elapsed Time          | 40           | Measurement—<br>Activity 3: Clocks<br>(Elapsed Time)<br><br>Number Lines—<br>Activity 5: Explore | Country Countdown,<br>Clock-a-Doodle-Do,<br>Level K<br><br>The Number Games,<br>Tiny's Think Tank,<br>Level D | Elapsed time   |
| 4             | Use Time Intervals                          | ✓                           | ✓                      |                             |              |  |   |  |
| 5             | Problem Solving • Time Intervals            | ✓                           | ✓                      |                             |              |  |   |  |
| 6             | Measure Length                              | ✓                           | ✓                      | Estimate and Measure Inches | 41           |  | Ice Station<br>Exploration, Linear<br>Lab, Levels C, D, and F   | Inch (in.)   |
| 7             | Estimate and Measure Liquid Volume          | ✓                           | ✓                      | Metric Capacity             | 42           | Measurement—<br>Activity 2:<br>Equivalent Measures<br>(Weight/Mass)                              |   | Liquid volume, liter (L)   |
| 8             | Estimate and Measure Mass                   | ✓                           | ✓                      | Mass                        | 43           |  |   | Mass, gram (g),<br>kilogram (kg)   |
| 9             | Solve Problems About Liquid Volume and Mass | ✓                           | ✓                      |                             |              | Number Lines—<br>Activity 5: Explore   |   |  |

## Chapter 11: Perimeter and Area

| Lesson Number | Lesson Title                         | Interactive Student Edition | Math on the Spot Video | Animated Math Models           |              | iTools  | Mega Math                                      | Vocabulary                        |
|---------------|--------------------------------------|-----------------------------|------------------------|--------------------------------|--------------|---|--|-----------------------------------|
|               |                                      |                             |                        | Activity Name                  | Skill Number |   |  |                                   |
| 1             | Investigate • Model Perimeter        | ✓                           | ✓                      | Estimate and Measure Perimeter | 44           | Geometry—Activity 3: Area and Perimeter (Rectangle) | Ice Station Exploration, Polar Planes, Level P | Perimeter                         |
| 2             | Find Perimeter                       | ✓                           | ✓                      |                                |              |   |  |                                   |
| 3             | Algebra • Find Unknown Side Lengths  | ✓                           | ✓                      | Relate Perimeter and Area      | 45           | Geometry—Activity 3: Area and Perimeter (Explore)   |  |                                   |
| 4             | Understand Area                      | ✓                           | ✓                      | Area of Plane Figures          | 46           |   | Ice Station Exploration, Polar Planes, Level Q | Area, unit square, square unit    |
| 5             | Measure Area                         | ✓                           | ✓                      |                                |              |   |  |                                   |
| 6             | Use Area Models                      | ✓                           | ✓                      |                                |              |   |  | Multiplication, repeated addition |
| 7             | Problem Solving • Area of Rectangles | ✓                           | ✓                      |                                |              | Geometry—Activity 3: Area and Perimeter (Rectangle) |  | Pattern                           |
| 8             | Area of Combined Rectangles          | ✓                           | ✓                      |                                |              |   |  | Distributive Property             |
| 9             | Same Perimeter, Different Areas      | ✓                           | ✓                      | Relate Perimeter and Area      | 45           | Geometry—Activity 3: Area and Perimeter (Rectangle) | Ice Station Exploration, Polar Planes, Level S |                                   |
| 10            | Same Area, Different Perimeters      | ✓                           | ✓                      |                                |              |   |  |                                   |

## Chapter 12: Two-Dimensional Shapes

| Lesson Number | Lesson Title                                   | Interactive Student Edition | Math on the Spot Video | Animated Math Models    |              | iTools  | Mega Math   | Vocabulary   |
|---------------|--|-----------------------------|------------------------|-------------------------|--------------|---|---|--|
|               |  |                             |                        | Activity Name           | Skill Number |   |   |  |
| 1             | Describe Plane Shapes                          | ✓                           | ✓                      | Points, Lines, and Rays | 47           | Geometry—Activity 2: Plane Figures (Sides and Vertices)<br>Geometry—Activity 5: Draw (Segments, Lines, and Rays)                                  |   | Plane shape, point, line, line segment, endpoint, ray, two-dimensional shape, closed shape, open shape |
| 2             | Describe Angles in Plane Shapes                | ✓                           | ✓                      |                         |              | Geometry—Activity 2: Plane Figures (Sides and Vertices)<br>Geometry—Activity 5: Draw (Angles)<br>Measurement—Activity 3: Clocks (Time on a Clock) |   | Angle, vertex, right angle   |
| 3             | Identify Polygons                              | ✓                           | ✓                      | Identify Plane Figures  | 48           | Geometry—Activity 2: Plane Figures (Sides and Vertices)<br>Geometry—Activity 5: Draw (Polygons)<br>Geometry—Activity 6: Explore (Plane Figures)   | Ice Station Exploration, Polar Planes, Level D<br>Shapes Ahoy! Ship Shapes, Level J<br>Shapes Ahoy! Sea Cave Sorting, Level K | Polygon, side, quadrilateral, pentagon, hexagon, octagon, decagon, triangle                            |
| 4             | Describe Sides of Polygons                     | ✓                           | ✓                      | Types of Lines          | 49           | Geometry—Activity 5: Draw (Segments, Lines, and Rays)   | Ice Station Exploration, Polar Planes, Level C  | Intersecting lines, perpendicular lines, parallel lines  |
| 5             | Classify Quadrilaterals                        | ✓                           | ✓                      | Quadrilaterals          | 50           | Geometry—Activity 2: Plane Figures (Sides and Vertices)<br>Geometry—Activity 5: Draw (Polygons)   | Ice Station Exploration, Polar Planes, Level G  | Rhombus, trapezoid, rectangle, square  |
| 6             | Draw Quadrilaterals                            | ✓                           | ✓                      |                         |              |   |   |  |
| 7             | Describe Triangles                             | ✓                           | ✓                      |                         |              |   |   |  |
| 8             | Problem Solving • Classify Plane Shapes        | ✓                           | ✓                      |                         |              |   | Shapes Ahoy! Sea Cave Sorting, Level K  | Venn diagram   |
| 9             | Investigate—Relate Shapes, Fractions, and Area | ✓                           | ✓                      |                         |              | Geometry—Activity 3: Area and Perimeter (Explore)   | Shapes Ahoy! Ship Shapes, Level S   | Area, unit fraction  |

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