

**Arickaree School Parent/Student Resources
For Homework Assistance
Fifth Grade**

The following websites can be used as an additional resource for you and your child throughout the school year. Preschool links encompass all subject matter. The Kindergarten through 5th grade are divided by subject and unit where possible. If you have additional questions, please contact your child's teacher. Please submit any and all bad links to leeh@arickaree.org.

Fifth Grade

www.aplusmath.com

www.wuzzlesandpuzzles.com

www.math-aids.com

www.math-drills.com

www.aplusmath.com



Fifth Grade Math

For each unit are links to websites that support math instruction for the major ideas of the unit. The websites vary in difficulty, and many permit the teacher and/or parent to select a level. After being introduced to the sites, students should be able to work independently or in pairs on each activity unless the annotation states differently. Please click the UNDERLINED link in the left column to be taken to the webpage described in the right hand column.

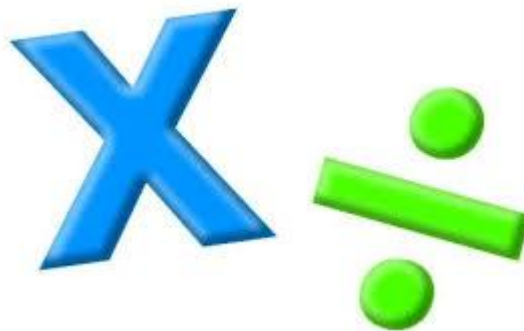
Number Theory

<u>The Factor Game</u>	Play against the computer or a friend
<u>Grid Game</u>	Find factors and multiples of numbers
<u>Prime Factoring</u>	Shoot the turkey with the correct answer; 3 levels
<u>Prime Factoring 2</u>	Write the prime factors of given numbers
<u>Fact Families</u>	Explanation of fact families
<u>Multiples, Factors, Primes & Composites</u>	Video lesson on factors & arrays; includes a paper assessment for teachers
<u>Factorization</u>	Find the factors of a given number and represent them on a grid
<u>Exponents</u>	An explanation followed by a quiz
<u>Listing of Divisibility Rules</u>	Lists the divisibility rules
<u>Divisibility Rules</u>	Check the number to see which divisibility rules apply; check your answer
<u>Prime or Composite?</u>	Decide whether the number given is prime or composite
<u>E-Lab : Prime or Composite</u>	Listed as grade four, but an interactive review of prime and composite numbers



Arickaree School Parent/Student Resources
For Homework Assistance
Fifth Grade

<u>Prime & Composite Worksheet</u>	Quiz on prime and composite; answers are printed at the bottom of page
<u>Number Cop</u>	Choose multiples, primes or perfect squares; 50 questions to get through the game
<u>Square Root Flashcards</u>	Choose flashcards and square roots for drill on common square roots
<u>Shortcuts for Squaring</u>	Tips for ways to beat the calculator.
<u>Build Your Own Array</u>	Needs teacher planning and direction; interactive board for making arrays
<u>Multiflyer</u>	Online multiplication game
<u>Batters Up!</u>	Multiplication practice in a baseball game
<u>Multiplication Explained</u>	A video explains various ways to multiply, then asks the student to estimate, multiply and verify
<u>Multiplication Drill</u>	Choose from three levels to practice multiplication facts
<u>Mighty Math Calculating Crew</u>	Multiply using arrays and standard expressions
<u>Multiplication Drills</u>	Choose from a list of multiplication practice drills
<u>Math Baseball</u>	1 or 2 player game to practice facts
<u>Math Tic-Tac-Toe</u>	Math drill in a tic tac toe game; many options and levels
<u>Number Monster</u>	Drill on multiplication facts
<u>Ghost Blasters Odd</u>	Click on the odd numbered ghosts
<u>Ghost Blasters Even</u>	Click on the even numbered ghosts
<u>Product Game</u>	Two-player competition to place four colors in a row



Estimation & Computation

<u>Catapult</u>	Put the missing number in the expressions to save the rabbit from being catapulted
<u>Open Sentence Practice</u>	Solve simple algebraic expressions by choosing the correct number to complete the equation.
<u>Find the Missing Variable</u>	Solve algebraic expressions by typing the correct number to complete the sentence
<u>Power Football</u>	Solve for the missing number in an algorithm; choose medium level
<u>Hangman Rounding</u>	Round to the nearest thousand and add; 10 problems per game
<u>Rounding Explained</u>	Student inputs number and place value for rounding; receives an explanation
<u>Rounding Flashcards</u>	Practice rounding with flashcards
<u>Decimal Speedway</u>	Play against a friend or the computer to race through a decimal speedway track
<u>Powers of 10</u>	See the magnitude of the powers of 10 - interesting,

$$x + 5 = 10$$

**Arickaree School Parent/Student Resources
For Homework Assistance
Fifth Grade**

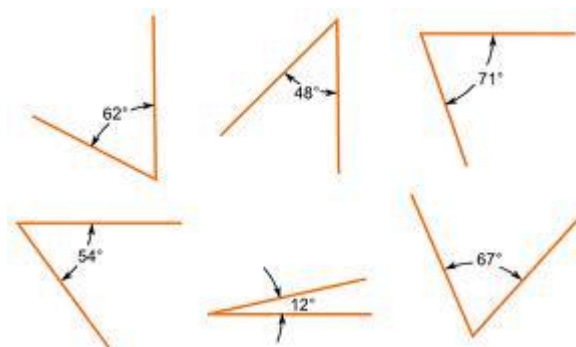
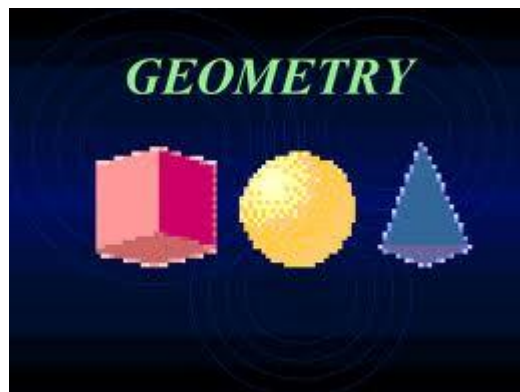
	not interactive
<u>Pinpoint the Number</u>	Move the arrow to identify a number on a number line; three levels - numbers get hard
<u>Estimation Golf</u>	Estimate how far the golf ball will go
<u>More or Less Estimator</u>	Estimate length, number of objects or number of corners; easy level is difficult
<u>Tables Tester</u>	Megahard level gives multiplication of 2-digit by 1-digit numbers
<u>Place Value to 100,000</u>	Play a game that shows your knowledge of place value
<u>Place Value to 6 Digits</u>	Practice finding place value to millions
<u>Place Value Practice</u>	Choose Grade 5, Numbers for place value support & problems
<u>Number Puzzle</u>	Fit the numbers into a puzzle; write the number based on words
<u>Adding Decimals</u>	Drill on addition of decimals by tenths; multiple choice
<u>Subtracting Decimals</u>	Drill on subtraction of decimals by tenths; multiple choice
<u>Railroad Repair</u>	Use railroad tracks sized by decimals to repair the tracks; must add decimals
<u>Laser Beam</u>	Three levels of activity with decimals (rounding and adding)
<u>Math Mayhem</u>	Fact drill
<u>Math Barge</u>	Load the correct cargo on the barge; many options for difficulty
<u>Math Magician</u>	Choose addition and subtraction, level 2, for 5-minute practice
<u>Addition w/1-Digit Decimals</u>	Worksheet on adding whole numbers with 1-digit decimals
<u>Addition w/2-Digit Decimals</u>	Worksheet on adding two-digit decimal numbers
<u>Subtraction w/2-Digit Decimals</u>	Worksheet on subtracting numbers with one-digit decimals
<u>Platform Scale</u>	Weigh characters in grams
<u>Platform Scales - Addition</u>	Weigh several figures and add weights together to hundredths
<u>Platform Scales - Subtraction</u>	Weigh several figures and subtract their weights to hundredths
<u>Data Practice</u>	Multiple exercises on mean, median, mode, and range
<u>Data Quiz</u>	Find the mean, median, mode, and range for 10 questions
<u>Data Handling</u>	Lesson on average weather with activities
<u>Train Race</u>	Compute mean, median and range in this problem-solving scenario
<u>Finding Mean & Mode</u>	E-lab practice and modeling of finding mean and mode
<u>Compare Mean, Median & Range</u>	Two sets of race cycles; compare which has the higher mean, median, or range



**Arickaree School Parent/Student Resources
For Homework Assistance
Fifth Grade**

Geometry

<u>What's My Angle?</u>	Ten angle activities with a protractor
<u>Measure Angles</u>	Use a protractor to measure angles and select from multiple choice
<u>Angles</u>	Identify angle sizes when lines are parallel
<u>Angle Activities</u>	Ten investigations about angles and shapes with protractor
<u>Hitting the Target</u>	Learning about angles through sports (British); excellent tutorial with activities
<u>Bath Tiles</u>	Use knowledge of angles and geometry to move tiles
<u>Banana Hunt</u>	Try to estimate the angle; although it says evaluation only, it works
<u>Golf</u>	Decide on the angle and distance to get a hole in one
<u>Measuring Angles E-Lab</u>	E-lab for exploring measuring angles
<u>Measure Angles</u>	Use a protractor and choose correct answer
<u>Protractor Demonstrations</u>	Teacher tool for demonstration; ten activities
<u>Protractor Fun</u>	Use a protractor and choose correct answer
<u>Know the Angles</u>	Explanation of angles with practice
<u>Geometry Activities</u>	Choose from the geometry activities for practice with angles and triangles
<u>Recognizing Angles</u>	A game designed for 6th grade on recognizing angles
<u>Geometric Matching</u>	Match the triangles with their names
<u>Place Value to 100,000</u>	Play a game that shows your knowledge of place value
<u>Place Value to 6 Digits</u>	Practice finding place value to millions
<u>Specific Place Value</u>	Asks for place value for specific digits
<u>Name the Polygon</u>	Given a description, pick the name of the polygon
<u>2- & 3-D Shapes</u>	Several activities for identifying shapes and their characteristics; may be downloaded
<u>Incredible Tessellations</u>	Explore the many tessellations created by one person



Division

<u>Exploring Dividing Decimals</u>	E-lab that uses arrays to demonstrate dividing decimals
<u>Dividing Decimals</u>	Divide decimals by whole numbers; may need scratch paper
<u>E-Lab Dividing Decimals Model</u>	This e-lab interactive demonstrates and give practice with dividing decimals

**Arickaree School Parent/Student Resources
For Homework Assistance
Fifth Grade**

<u>Learn Alberta!</u>	Choose multiplying & dividing decimals; explanations with interactivity
<u>On Target!</u>	Practice with division facts; short
<u>Division Machine</u>	Solve division problems; three levels
<u>Sum Sense - Division</u>	Use the given numbers to make a division sentence
<u>Mad Math Minute</u>	Set the parameters for a minute's worth of division problems
<u>Draggable Division</u>	Support for doing long division; drag numbers; teacher demo first; variable levels
<u>Dividing 2-Digits by 1-Digit</u>	Solve division problems when 2-digits are divided by 1-digit with strong support
<u>Mystery Picture Division</u>	Solve nine division problems to uncover picture
<u>Modeling Division by 2-Digit Numbers</u>	Interactive modeling e-lab for division
<u>Dividarama</u>	Traditional long division problems with support
<u>Double Digit Division</u>	An alternative division algorithm is explained -- may help some students
<u>Around the World</u>	Travel around the world by answering math questions; multiple options for levels
<u>Mental Arithmetic</u>	Two levels of division for mental math
<u>Variable Math</u>	Solve for x in a timed game
<u>Place Value of Decimals</u>	Drill on place value for decimal numbers
<u>Rounding Off</u>	Round off numbers, including decimal places; three levels



Fractions, Decimals, & Percent's

<u>Fishy Fractions</u>	Choose from a variety of activities related to fractions; click 'Maybe Later' in registration
<u>Fraction Quizzes</u>	Choose from a variety of quizzes on fractions
<u>Learn Alberta</u>	Choose from four activities on fractions; explanations with interactivity
<u>Soccer Shootout</u>	Choose easy addition; add fractions with like denominators
<u>Interactive Fraction Bars</u>	Teacher direction; whole group; use bars to show equivalencies
<u>Fraction Sorter</u>	Make the two fractions, then order them by size and check your work
<u>Fraction Finder</u>	Make two fractions; make one between them on the number line and name it
<u>Decimal Switcher</u>	Move the four fractions around until they are in order
<u>Understanding Percent's</u>	New Problem will give a figure and ask for the percent
<u>Pizza Fractions</u>	Meet orders by selecting the right size of pizza and combination of ingredients
<u>Fraction Pie Game</u>	For use if student has data for a circle graph

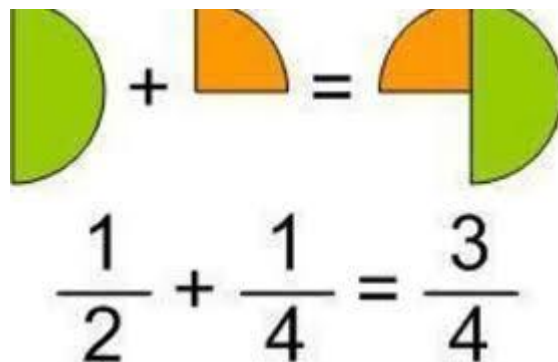


Arickaree School Parent/Student Resources For Homework Assistance Fifth Grade

<u>Pie Chart</u>	Students use own data to create a pie chart
<u>Bug Splat</u>	Choose equivalent fractions before the bugs splat on the windshield
<u>Ice Cream Shop</u>	Convert fractions to mixed numbers and scoop up the correct amount of ice cream
<u>Fraction Frenzy</u>	Match equivalent fractions; timed
<u>Fresh Baked Fractions</u>	Find the one fraction out of four that isn't equivalent, no timer
<u>Death to Decimals</u>	Shoot equivalent fractions in a game atmosphere
<u>Matching Fractions & Decimals</u>	Eight cards to match common fractions and decimals; use refresh to shuffle cards

Data & Fraction Addition & Subtraction

<u>Stem & Leaf Plotter</u>	Interactive module for students to enter own data; teacher involvement
<u>Stem & Leaf Form</u>	Enter own data, module puts it into a stem and leaf and computes all the data
<u>Soccer Shootout</u>	Choose easy addition; add fractions with like denominators
<u>Math Splat</u>	Solve increasingly difficult fraction addition and subtraction problems
<u>Subtracting Fractions</u>	Simple drill with like denominators; type answer
<u>Grampy's Cookies</u>	Combine fractional pieces to make whole cookies; strategize; adding fractions
<u>Fraction Track</u>	Two-player game trying to make fractions to move markers across board
<u>Basic Math Fractions</u>	Practice either addition or subtraction of fractions
<u>Probability Games</u>	Use the probability applets to see how the number of samples affects the results
<u>Least Common Denominator</u>	Find the least common denominator of two fractions; drill
<u>Adding Fractions Visually</u>	Find the common denominator, then combine the colored pieces to add fractions
<u>Percent, Decimals, & Fractions</u>	Memory game to match percent's, fractions, and decimals
<u>Percent, Decimals, & Fractions</u>	Test on decimals, percent's and fractions -- 28 questions
<u>Fraction Decimal Matching</u>	Match the fraction with its decimal equivalent to uncover a picture
<u>Saloon Snap</u>	Play Snap; click the bell when the cards are equivalent; timed; three levels



Exponents & Negative Numbers

<u>Powers of 10 Explained</u>	Explanation of multiplying by 10 & scientific notation; practice problems (T or F) next page
---	--

**Arickaree School Parent/Student Resources
For Homework Assistance
Fifth Grade**

<u>The Problem Site</u>	Take four numbers & make equations to total 1-10; great challenge
<u>Basket Math</u>	Order of operations drill; make a basket with the right answer
<u>Operation Order</u>	Place numbers in equations to reach a particular answer; hard level is appropriate
<u>Voltmeter</u>	Explore with batteries to use negative numbers and parentheses in number sentences
<u>Line Jumper</u>	Use the number line to add and subtract integers
<u>Order of Operations Flashcards</u>	Solve equations involving parentheses
<u>Matho 2</u>	Bingo game with four cards; solve problems, paying attention to order of operations
<u>Exponents Explained</u>	Explanation with examples only -- easy to follow
<u>Exponents</u>	An explanation followed by a quiz
<u>Comparing Exponential Sentences</u>	Compare two numbers in exponent form with <, >, or =
<u>Using Parentheses</u>	Explanation of the use of parentheses in number sentences with practice.
<u>Comparing Integers</u>	Drill on comparing integers as more than, less than, or equal to
<u>Builder Ted</u>	Put numbers in order from smallest to largest



Exponents

$$(5)(5)(5) = 5^3$$

Fractions & Ratios

<u>Soccer Shootout</u>	Practice with fractions and whole numbers; many levels and skills
<u>Multiplying by Whole Numbers</u>	Multiply fractions by whole numbers; drill
<u>Multiplying Fractions</u>	Go to Math Levels Five-Six and choose multiplying fractions; explanation and game
<u>Multiplying Fractions 2</u>	Drill on multiplying fractions with fractions
<u>Multiplying Fractions 3</u>	E-lab modeling multiplying a fraction by a fraction
<u>Subtracting Mixed Numbers</u>	Drill on subtracting mixed numbers with same denominators
<u>Modeling Subtracting Fractions</u>	E-lab model of subtracting unlike fractions
<u>Modeling Subtracting Mixed Numbers</u>	Need recording sheet; E-lab modeling subtracting mixed numbers
<u>Glencoe Practice Page</u>	Solve word problems related to percent
<u>Modeling Percent</u>	E-lab modeling percent's on a grid; need recording sheet; whole class activity?
<u>Find the Percent</u>	Explanation of percent problems with practice
<u>Percent Jeopardy</u>	One or two-player game on finding percent of a number
<u>Pyramid</u>	Alternative lesson on solving problems involving



**Arickaree School Parent/Student Resources
For Homework Assistance
Fifth Grade**

	percent's
<u>Penguin Waiter</u>	Calculate tips for a waiter; percentage and total given
<u>Finding Percent's</u>	Practice drill on finding the percent of a number after multiplying
<u>Determining Percent's</u>	Practice drill on finding what percentage of a number another number is
<u>Math Splat</u>	Add fractions; mixed numbers; choose correct answer before bugs splat
<u>Adding Mixed Numbers</u>	Drill on adding mixed numbers with same denominators
<u>Modeling Adding Unlike Fractions</u>	E-lab model of adding unlike fractions
<u>Comparing Like Fractions</u>	Compare fractions with like denominators
<u>HiLo Fractions</u>	Take a chance on whether the next fraction will be higher or lower; three levels
<u>Fraction Game</u>	2-player game; try to get all the fractions to whole numbers
<u>Comparing Unlike Fractions</u>	Compare fractions with unlike denominators; drill
<u>Ariel's Fraction Game</u>	Click on the fraction that is higher; drill
<u>Aladdin's Fraction Game</u>	Identify the fraction that is colored
<u>Tweety Pie's Fraction Game</u>	Click on the Tweety Pie with the equivalent fraction; press new game to get new numbers
<u>Fraction Bars</u>	Teacher direction; applet shows fractions, percent's, and decimals
<u>Percent Game</u>	Convert among percent, fractions, and decimals
<u>Pairs</u>	Match equivalent pairs; choose among percent, fraction, and decimal
<u>Decimals</u>	Lessons with sports problems to work on converting fractions to decimals
<u>Frosty Fractions</u>	Two-person game to convert fractions to mixed numbers on the game board
<u>Mixed Numbers & Fractions</u>	Convert mixed numbers to fractions & vice versa to earn points
<u>Converting Fractions</u>	Converting fractions to whole and mixed numbers; drill
<u>Converting Mixed Numbers</u>	Drill on converting mixed numbers to fractions
<u>Fraction Sheet</u>	Use the fraction machine to add fractions with unlike denominators; help if needed
<u>Least Common Denominators</u>	Drill on finding the least common denominators

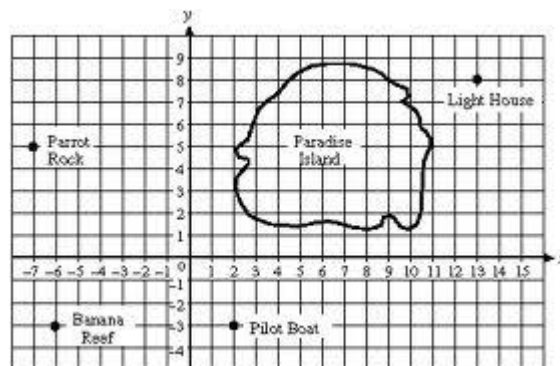


Coordinates & Measurement

<u>General Coordinates Game</u>	Write the points where the house sits
---	---------------------------------------

Arickaree School Parent/Student Resources For Homework Assistance Fifth Grade

<u>Mine Sweep</u>	Find the mines by plotting coordinates on a four-quadrant grid
<u>Plot the Robot</u>	Use your head and calculator to find coordinate for plotting a robot on a grid
<u>Find Hurtle</u>	Plot numbers on a coordinate grid to find where Hurtle is hiding
<u>Taxicab Math</u>	Try to find the treasure by using map coordinates of streets
<u>Top Quark</u>	Play against a friend or computer to find opponents quarks on a grid
<u>Volume Lesson</u>	Guess the number of cubes in the tank; lesson on volume
<u>Volume E-Lab</u>	E-Lab constructs a prism; calculate the volume
<u>Ordered Pairs (Pears)</u>	Lesson on placing ordered pairs on a one-quadrant grid
<u>Simple Coordinates Game</u>	Describe points in a one-quadrant grid
<u>Area of Triangles</u>	Gives the formula for computing the area of triangles and drills on the skill
<u>Triangle Tangle</u>	Figure the area of ten triangles; answers given at end; download worksheet for recording
<u>Area Explorer</u>	Adjust the perimeter and determine the area; teacher planning required
<u>Area & Perimeter</u>	Lesson on how area and perimeter are related
<u>Area & Perimeter Irregular Shapes</u>	Lesson on ways to measure irregular shapes to find area and perimeter



Algebra

<u>Shape Pan Balance</u>	Double pan balance problems to determine weight of shapes; friendly numbers for elementary
<u>Weigh the Wangdoodles</u>	Use reasoning to determine the weight of three colors on the balance
<u>Matching Equations</u>	Solve for x; find two equations with same solution
<u>Evaluating Equations</u>	Evaluate the equations to find the answers; drill
<u>Lesson on Writing Equations</u>	See how to write an equation from a word problem; multiple choice drill
<u>Equation Workout</u>	Match equations with their written form; can return to lesson if not successful
<u>Interactive Racing</u>	Demonstration of rate in graph form; set speed & step size; race two figures
<u>Circumference</u>	Use a formula to find the circumference; drill
<u>Area of Circles</u>	Use a formula to find the area of a circle; drill
<u>What Does the Money Weigh?</u>	10-problem quiz determining the weight of money
<u>Solving Through Balance</u>	Solve equations by treating both sides the same; write equations to solve



Arickaree School Parent/Student Resources For Homework Assistance Fifth Grade

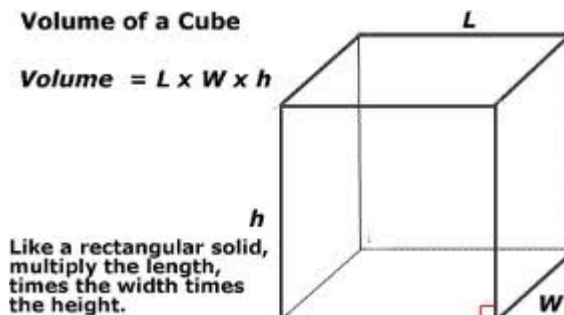
<u>Balancing the Equation</u>	Use a balance to represent the equation and find a solution
<u>Line Graph Practice</u>	Interpret a line graph
<u>Predictions from Line Graphs</u>	Practice quiz on making predictions based on graphs
<u>Predictions & Conclusions</u>	Practice quiz on making predictions & drawing conclusions based on graphs

Volume

<u>Area & Perimeter</u>	Lesson on how area and perimeter are related
<u>Area & Perimeter Irregular Shapes</u>	Lesson on ways to measure irregular shapes to find area and perimeter
<u>Capacity Matching</u>	Match the terms to their quantities (1 c = 8 oz.)
<u>Volume of Prisms</u>	Use the formula for this volume practice drill
<u>Volume of Prisms E-Lab</u>	Using blocks to form prisms, calculate volume
<u>Calculating Board Feet</u>	Finding board feet through formulas for volume
<u>Area of Circles</u>	Use a formula to find the area of a circle; drill
<u>Solid Figures, Different Views</u>	Match slices from two different solids

Volume of a Cube

$$\text{Volume} = L \times W \times h$$



Probability, Ratios & Rates

<u>Planning a Party</u>	Predict the number of guests and genders
<u>Solving with Tree Diagram</u>	Extension of previous activity; use a tree diagram to solve a problem.
<u>Probability Experiments</u>	E-lab practice with probability (predicted versus actual)
<u>Who Will Win?</u>	Look at the probability of winning when the spinner is not equal
<u>What is Probability?</u>	An interactive lesson on probability
<u>Combinations</u>	Making combinations-gives only high/low feedback
<u>Combinations Explained</u>	Learn about computing combinations through this game
<u>Greatest Common Factor</u>	What is the greatest common factor; multiple choice
<u>Multiples & Least Common</u>	E-lab demonstration/problem-solving activity of least common multiples
<u>Orange Juice</u>	Use an applet to determine which juice is more orange; whole to part ratio
<u>Ratio Questions</u>	Solve the ratio questions in a quiz
<u>Ratio Workout</u>	Try ten problems; fewer than eight correct, try the lesson
<u>Factorization</u>	Find all the factors of a random number; demonstrate the factors on a grid



**Arickaree School Parent/Student Resources
For Homework Assistance
Fifth Grade**

Challenge

<u>Melting Pot Math</u>	Non-fiction reading with follow-up math questions & activities
<u>Questions</u>	Word problems to solve; critical thinking practice
<u>Millionaire Math & Science</u>	Progressively harder questions about math and science concepts
<u>Escape from Knab</u>	A decision-making game in which you try to earn money to buy a ticket home
<u>Fractional Sets</u>	Match the answer with a division problem involving fractions
<u>Precise Measurement</u>	Use the ruler to measure lines precisely
<u>Dr. Wick's Evil Plans</u>	Math problem solving game developed for middle school



Teacher Resources

<u>Online Quiz Software</u>	Teacher registers to create quizzes and/or tests; gives code to students; computer grades and gives feedback.
<u>Curricular Links</u>	Best web collection of links organized by content area skills