

Drogram	Description	Suggested Application as a
Program	Description	Teaching/Learning Tool
Interactive Games http://resources.oswego .org/games/	This website is a database full of interactive numeracy games.	The topics covered in this resource are: Addition Subtraction Multiplication Division Fractions Decimals, Sequencing Mathematical reasoning
Visual Fractions Game http://www.visualfractio ns.com/Games.htm	Teachers can design their own fractions with the Fraction Maker Page. In this section they can produce either number line or circle fraction images. Students can play online games where they gain a greater understanding of the topic fractions.	This resource focuses mainly on fractions
Whiteboards Secondary Maths http://www.bgfl.org/bgfl /15.cfm?s=15&p=245,ind ex Division Bingo http://www.bgfl.org/bgfl /custom/resources_ftp/c lient_ftp/ks2/maths/bing o/index.html	This website is a data base full of topic specific online maths activities. <i>Division Bingo</i> Students must cover all the numbers on their Bingo card with counters. Students gain counters by correctly answering multiplication and division questions.	 The following topics are covered in this resource: Division Formulas for area and volume Sequencing Percentages 2D and 3D Shapes
Sequencing http://www.bgfl.org/bgfl /custom/resources_ftp/c lient_ftp/ks3/maths/mat ch_seq/3.htm	Sequencing Students must build using match-sticks following the sequence.	
Percentages http://www.bgfl.org/bgfl /custom/resources_ftp/c lient_ftp/ks2/maths/perc entages/index.htm	Percentages Students are given sequential items to purchase Eg. Shoes, hats, clothes etc. They must then work out the percentage discount from the original item.	



Shapes	Shapes	
http://www.befl.org/befl	Students are shown various 2D and 3D	
/custom/resources_ftp/c	shapes and how to calculate the area	
lient ftp/ks2/maths/3d/i	and perimeter.	
ndex.htm		
Illuminations	Illuminations is a data base full of year specific online maths activities.	This resources covers the following topics:
Algebra Tiles http://illuminations.nct m.org/ActivityDetail.aspx ?ID=216	<i>Algebra Tiles</i> Students learn how to solve algebra equations.	 Algebra Fractal measurements/patterns Geometric Solids Calculus
Fractal Tool http://illuminations.nct m.org/ActivityDetail.aspx ?ID=17	<i>Fractal Tool</i> Students explore self-similarity and patterns in fractal measurements.	
Geometric Solids http://illuminations.nct m.org/ActivityDetail.aspx ?ID=70	Geometric Solids Students can learn about various geometric solids and their properties. They can manipulate and colour each shape to explore the number of faces, edges, and vertices.	
Interactive Calculus Tool http://illuminations.nct m.org/ActivityDetail.aspx ?ID=221	Interactive Calculus Tool Students learn calculus concepts in an interactive environment. They explore graphs of polynomial functions. Approximate tangent lines, derivative curves, and areas.	
Inter-activate	Inter-activate is an online resource for	The activities in this resource
http://www.shodor.org/i	mathematics and science. It is	relate to the following
<u>nteractivate/</u>	comprised of online interactive	topics:
Arithmatia	activities, lessons, and discussions.	ArithmeticComparison
http://www.shodor.org/i	Arithmetic	Estimator
nteractivate/activities/Ar	Students play a generalised version of	Fractions and
ithmeticFour/	connect four, gaining the chance to	Decimais
	place a piece on the board by answering maths questions (addition, subtraction, multiplication, division). Parameters: time, difficulty level, types of questions.	 Probability



Comparison Estimator <u>http://www.shodor.org/i</u> <u>nteractivate/activities/C</u> <u>omparisonEstimator/</u> Fractions and Decimals <u>http://www.shodor.org/i</u> <u>nteractivate/activities/C</u> <u>onverter/</u>	Comparison Estimator Compare two sets of objects, using estimation to determine which is greater. Estimate a number of objects, the length of a line, or the area of a shape. Parameter: error tolerance. Fractions and Decimals Observe the relationships between fractions and decimals.	
Probability http://www.shodor.org/i nteractivate/activities/C oin/	<i>Probability</i> Involves the simulation of a coin toss allowing the user to input the number of flips. Toss results can be viewed as a list of individual outcomes, ratios, or table.	
Wolfram MathWorld http://mathworld.wolfra m.com/	Mathworld is a mathematical resource that provides the most extensive service to the world's mathematics and internet communities as part of a commitment to education and educational outreach. MathWorld features innovative interactive elements that enhance its usability in the classroom.	 These features include: Over 300 defined mathematical terms downloadable Mathematica notebooks Interactive three- dimensional geometry Extensive online information and activities separated by topic
Hotmath http://hotmath.com/ga mes.html	<i>Hotmath</i> is an interactive online games site that allows students to attempt mathematical problems in a fun and enjoyable way.	 The following topics are covered: Division/Multiplication Number Planes
Number Cop http://hotmath.com/hot math_help/games/numb ercop/numbercop_hotm ath.swf	<i>Number Cop</i> In this game students must choose a base number, and then move their car to pick up the multiples of their base number.	• Algebra
Catch The Fly http://hotmath.com/hot math_help/games/ctf/ct f_hotmath.swf	<i>Catch The Fly</i> Plotting X, and Y coordinates on a number plane.	



Algebra vs. the	Algebra vs. the Cockroaches	
Cockroaches	Find the equation of the line in slop-	
http://hotmath.com/hot	intercept form.	
math_help/games/kp/kp		
_hotmath_sound.swf		
Math-Play	Math-Play has a range of online	The following topics are
http://www.math-	interactive games categorised by year	covered:
<u>play.com/</u>	and topic:	Coordinate Plan
		Rational and
Coordinate Plane Game	Coordinate Plane Game	Irrational Numbers
http://www.math-	This basketball game has different	 Pythagorean
play.com/coordinate-	multiple choice questions about the	Theorem
plane-game.html	quadrants and the two axes.	 Adding Integers
Della esta esta est		 Two-step Equations
Rational and Irrational	Rational and Irrational Numbers	 Exponents and
Numbers	Classify rational and irrational numbers	powers
http://www.math-	when playing this fast-paced and fun	
play.com/rational-and-	game	
game/rational and		
game/rational numbers		
appo html		
game.num		
Pvthaaorean Theorem	Pythaaorean Theorem Jeopardy	
Jeopardy	Find the unknown leg or the	
http://www.math-	hypotenuse in a right triangle and	
play.com/Pythagorean-	check to see if three numbers could be	
Theorem-	the sides of a right triangle	
Jeopardy/Pythagorean-		
Theorem-Jeopardy.html		
Adding Integers Game	Adding Integers Game	
http://www.math-	Identify whether different sums are	
play.com/adding-	positive, negative, or zero by dragging	
integers-game/adding-	different problems into the correct	
integers-game.html	basket in less than 2 minutes.	
Solving Two stop	Soluing Two stan Equations	
Solving Two-slep	Backothall game about solving two stop	
http://www.math-	equations	
nttp://www.math-		
Faultions-Game html		
Solving Systems of	Solving Systems of Equations	
Equations	Basketball game while solving systems	
http://www.math-	of equations and earning points.	
play.com/System-of		
Equations-Game.html		



Exponents Jeopardy http://www.math- play.com/Exponents- Jeopardy/Exponents- Jeopardy.html	<i>Exponents Jeopardy</i> Review basic facts about exponents and powers	
Cool Math4Kids http://www.coolmath4ki ds.com/fractions/index.h tml	Cool Math4Kids is a colourful and interactive student centred online learning site. Each topic begins with an instructions page introducing the topic, followed by activities and games. Below is an example of some of the online games:	 The following topics are cover in this resource: Fractions Equations
Equations <u>http://www.coolmath-</u> games.com/0-math- man/index.html	<i>Math Man</i> Use the math man to move around the board eating ghosts that correspond to your particular equation.	
Fraction Splat http://www.coolmath- games.com/	Fraction Splat Students must click on the correct fraction type to make it splat on the walls, as they do this they accrue points.	
Fun Brain http://www.funbrain.co m/brain/MathBrain/Mat hBrain.html	Fun Brain is an arcade styled literacy and numeracy online games site. In Math Arcade students must complete certain math related games to move their player further around the board.	The following topics are cover in this resource: • Addition • Multiplication • Division • Subtraction
Math Playground http://www.mathplaygr ound.com/games.html	Math Playground is an online numeracy based games site. This site caters for students from upper primary to through to high school.	Topics cover in this resource are: Ratios Algebra Area and perimeter
Scale Factor X http://www.mathplaygr ound.com/ScaleFactorX2 /GameLoader.html	<i>Scale Factor X</i> In this game students must alter ratios, proportions, and scale factors to undo damage done by aliens.	DecimalsFractionsPercentages
Weigh the Wangdoodles http://www.mathplaygr ound.com/wangdoodles. html	Weigh the Wangdoodles Your job is to find the weight of each Wangdoodle using the information provided by the scales. To be successful, you will have to make sure that the weight you assign to each Wangdoodle works on each scale. This activity is an introduction to multiple algebraic equations	



Decention	Decention	
http://www.mathplaygr	In this game students must match	
ound.com/Decention/De	fractions, decimals and percentages	
<u>cention.html</u>	together into groups for the	
	intergalactic space games.	
Area and Perimeter	Area and Perimeter	
http://www.mathplaygr	It's a party and students are in charge	
ound.com/PartyDesigner	of designing the floor plan. They must	
/PartyDesigner.html	click and drag the corners of the	
	coloured squares to create room	
	sections that have the correct area and	
	perimeter.	