

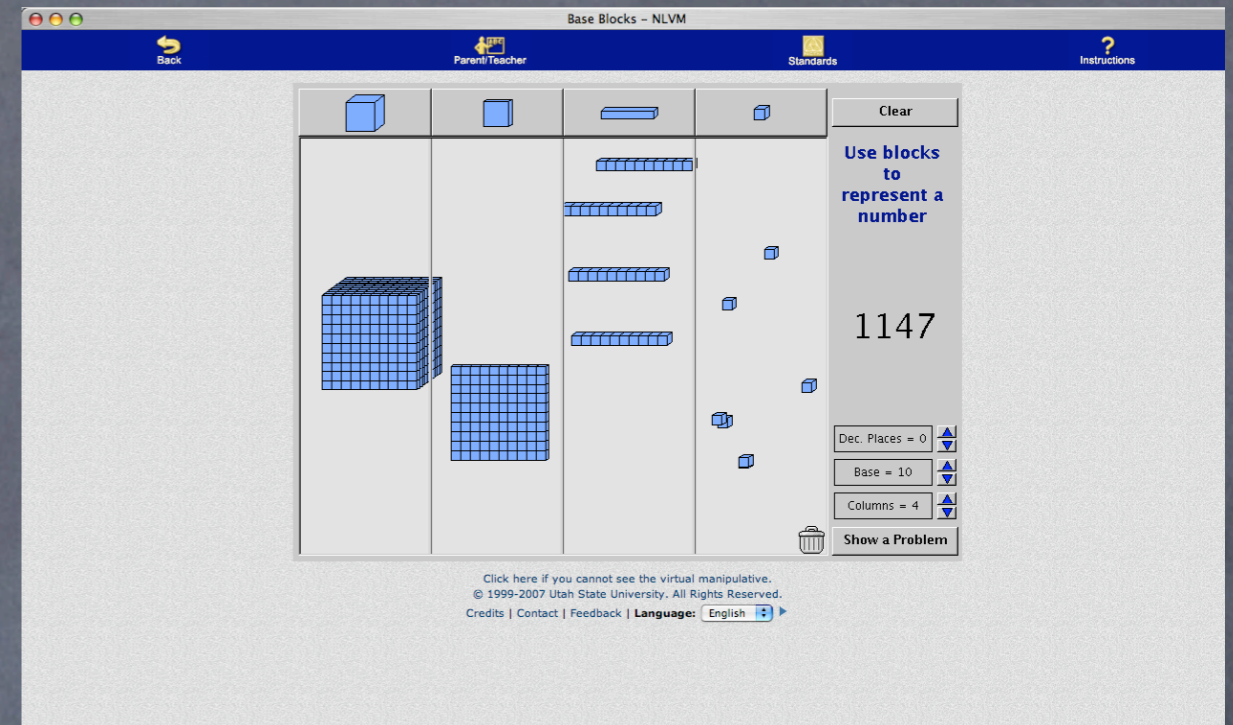
Math Websites Core Tools

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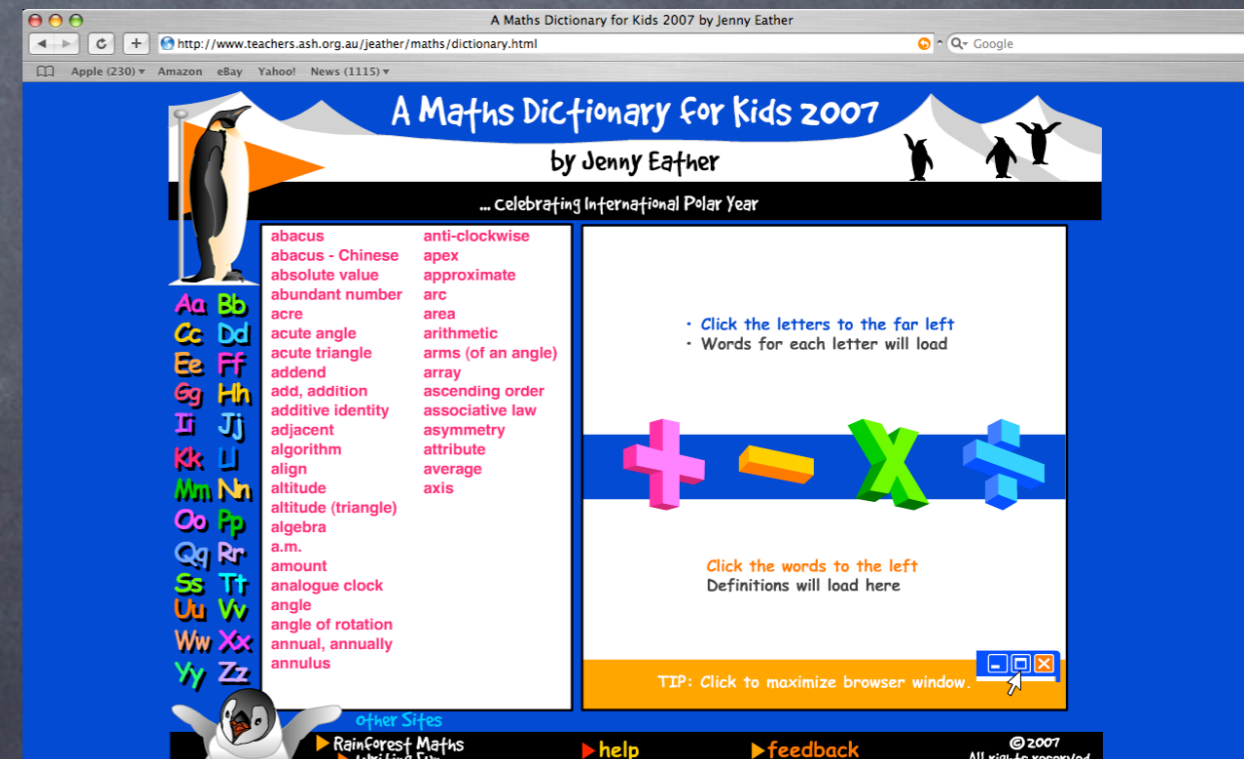
alltogether.wordpress.com

Math Websites

① National Library of Math Manipulatives is an excellent resource that is well designed and has a clean layout.



① A Maths Dictionary is an excellent resource for helping teach and explain math concepts.



Math Websites

• Illuminations is an NCTM website with many tools similar to the library of virtual manipulatives.

• Don't miss their web links section, which is terrific.

The screenshot shows the 'Web Links - Algebra' section of the Illuminations website. It features a list of resources with icons and descriptions:

- Calculator Pattern Puzzles** - Students use a calculator to explore patterns.
- Old MacDonald Growing Patterns** - This PDF file presents a lesson on growing patterns.
- Old Stamps** - Students work with costs of mailing different postage stamps.
- Mystery Operations** - This online activity allows students to explore operations.
- Double or Not** - A challenge from NCTM's "Figure This!" Web Resource.
- A Thousand Lockers** - This is a good activity to use in an algebra class.
- Algebra - Fun with Calendars** - A trick with the calendar provided.
- Mystery Operations** - This online activity allows students to explore operations.
- Double or Not** - This is one of the challenges from NCTM's "Figure This!" geometric.

The screenshot shows the main page of the Illuminations website. It features a navigation bar with 'Activities', 'Lessons', 'Standards', and 'Web Links'. Below the navigation bar, there are four main sections:

- Activities**: Explore our library of 96 online activities that help to make math come alive in the classroom or at home.
- Lessons**: View our collection of 525 lessons for preK-12 math educators.
- Standards**: Learn about NCTM's *Principles and Standards for School Mathematics*.
- Web Links**: Check out hundreds of exemplary online resources, as identified by an editorial panel.

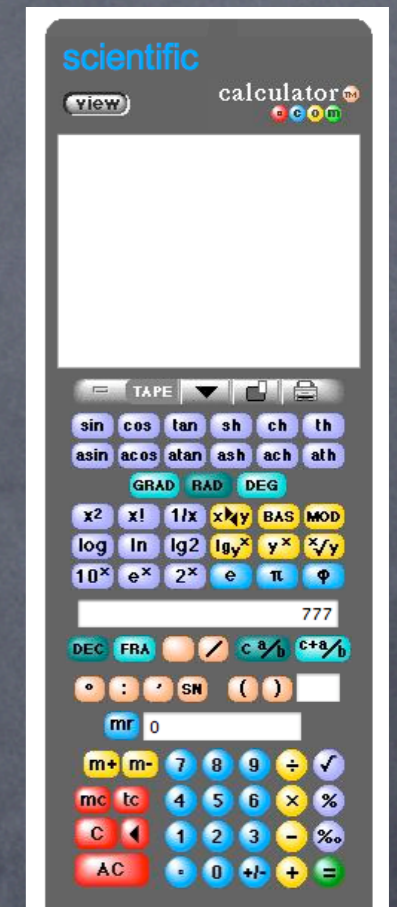
Highlighted Activity: **Cube Nets** (Examining Two-Dimensional Figures). Students investigate two-dimensional arrangements of squares to determine which of them can be folded into cubes. (Grades 3-8)

Highlighted Lesson: **Trout Pond** (Investigating Population Changes). Consider the changes in a trout pond over time. Use recursive functions to examine the effects of fishing, natural death, and re-stocking. (Grades 9-12)

<http://illuminations.nctm.org/>

Online Calculators

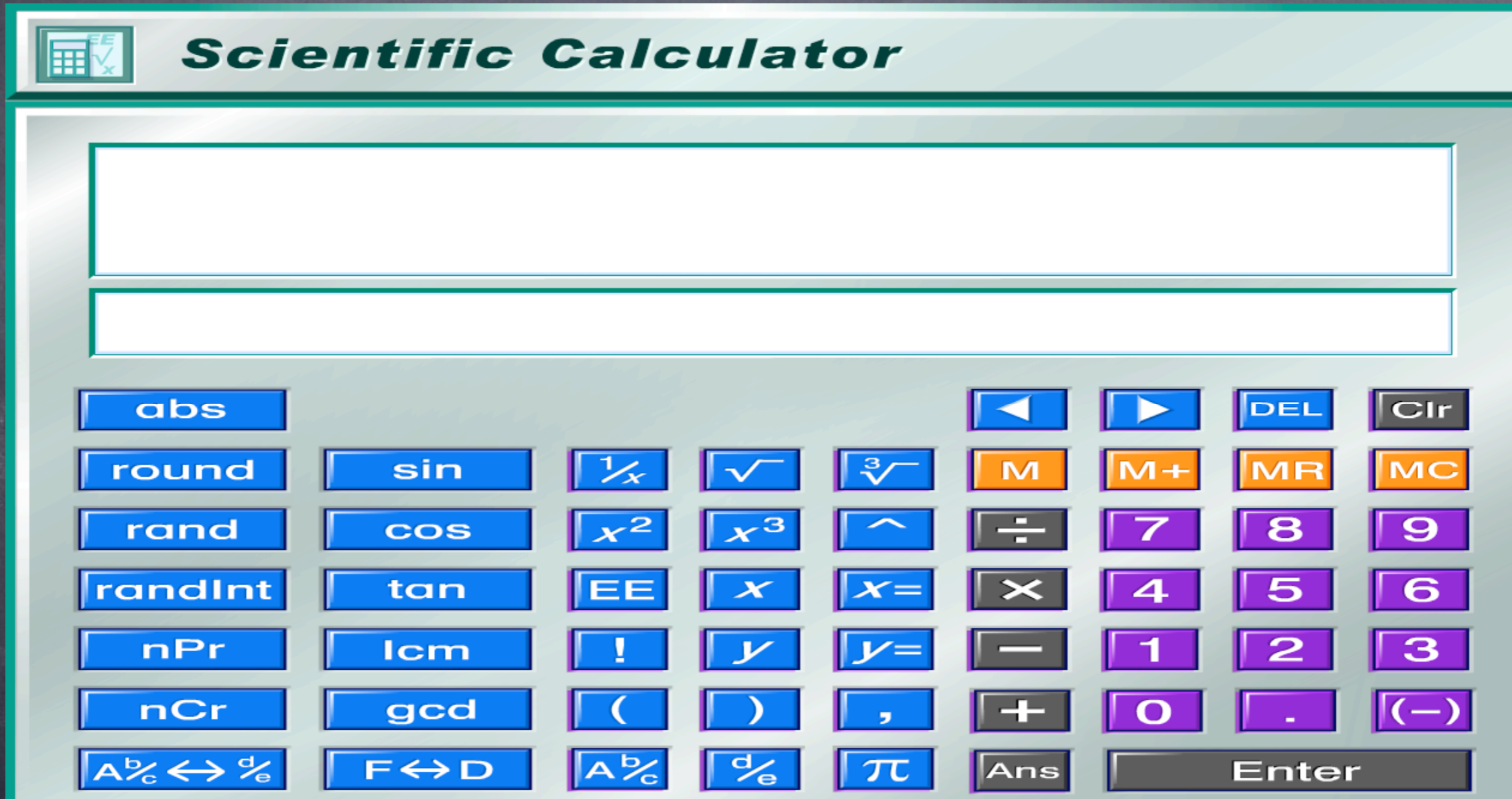
- On www.calculator.com you can find helpful online calculators for fractions and scientific functions.



[Click Me](#)

www.calculator.com

Online Calculator



The image shows a screenshot of an online scientific calculator interface. At the top, there is a title bar with a calculator icon and the text "Scientific Calculator". Below the title bar are two empty input fields. The main area contains a grid of buttons for various mathematical functions and operations. The buttons are arranged in a grid that is 7 rows high and 8 columns wide. The first row contains buttons for "abs", "round", "rand", "randInt", "nPr", "nCr", and two buttons for base conversion: $A^b/c \leftrightarrow d/e$. The second row contains "sin", "cos", "tan", "lcm", "gcd", "F ↔ D", and two buttons for base conversion: A^b/c and d/e . The third row contains $1/x$, $\sqrt{\quad}$, $\sqrt[3]{\quad}$, x^2 , x^3 , \wedge , "EE", "x", "x=", "!", "y", "y=", "(", ")", ",", "+", "0", ".", and "(-)". The fourth row contains "M", "M+", "MR", "MC", "÷", "7", "8", "9", "×", "4", "5", "6", "−", "1", "2", "3". The fifth row contains "←", "→", "DEL", "Clr", "Ans", and "Enter".

abs							
round	sin	$1/x$	$\sqrt{\quad}$	$\sqrt[3]{\quad}$	M	M+	MR
rand	cos	x^2	x^3	\wedge	÷	7	8
randInt	tan	EE	x	x=	×	4	5
nPr	lcm	!	y	y=	−	1	2
nCr	gcd	()	,	+	0	.
$A^b/c \leftrightarrow d/e$	F ↔ D	A^b/c	d/e	π	Ans	Enter	

Online Calculator

The image shows a web-based graphing calculator interface. At the top, the title "Graphing Calculator" is displayed in a teal header bar. Below the header, there are four tabs: "Equations", "Settings", "Intersection", and "Plot Points". The "Equations" tab is active, showing four rows for defining equations: y_1 (red), y_2 (green), y_3 (blue), and y_4 (yellow). Each row has an eye icon, a color swatch, a label, an equals sign, and an empty input field. To the right of the equations is a calculator keypad with buttons for division, multiplication, subtraction, addition, powers of x , square root, pi, e, natural log, common log, sine, cosine, tangent, and absolute value. Below the keypad are buttons for "GRAPH", "TRACE", "ZOOM IN", and "ZOOM OUT", along with left and right arrow keys. At the bottom right, there are two columns of input fields for the x and y coordinates of points, with the x-axis on the left and the y-axis on the right.