



## Maths and ICT

# MATHS AND WEB 2.0 TOOLS

Learn = Explore + Assess + Create + Play



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$\pi(a)th = f(u)n$



## Maths and ICT



# Fun and Maths?! A Paradox?



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8.(15pts) Consider the quadratic function  $y = 3x^2 + 6x + 5$ .

- Convert into the a-h-k form.
- What is the vertex of the parabola?
- What is the y-intercept?
- Sketch the graph.

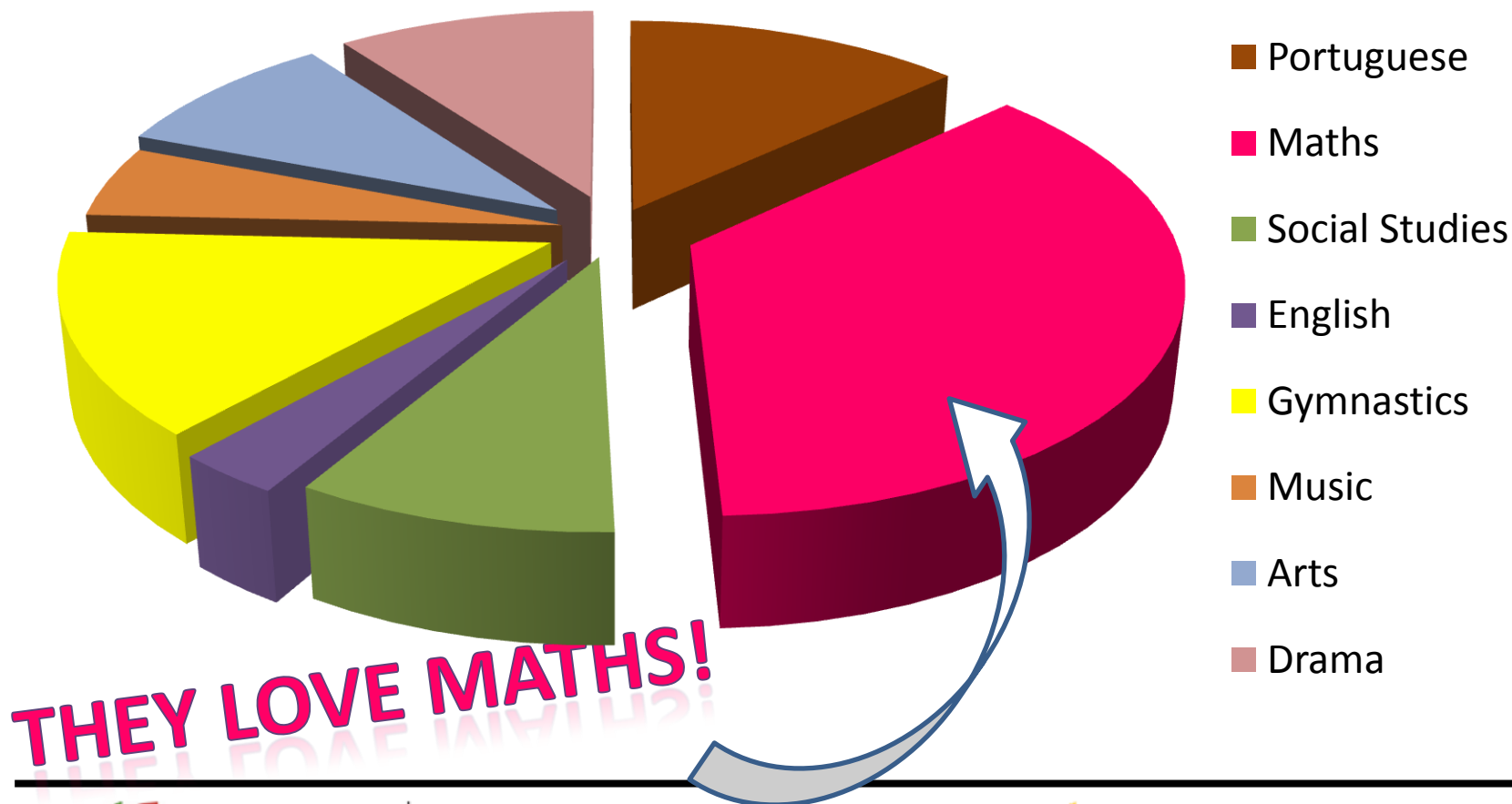
Tetris

Tetris is fun  
math isn't

# Math...for sure!



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# Changes in Math



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*Reasoning and Proof*

*Problem Solving*

*Communication*



*Connections*

*Representation*

# Etwinning Project



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**Fun and Math**

This is a blog created to the Etwinning Project Fun and Math. A project directed to mathematics, focused on funny and stimulating activities for children, enabling them to gain some interest and pleasure for this subject, but also explore their logical-mathematical thinking abilities and skills. With this project we intend to share challenges, problems, online games and tasks that allow children to improve their performance in Math.

**BLOG ARCHIVE**

- ▼ 2012 (11)
  - ▼ April (3)
    - Harthill Primary School Problems
    - Kieron's cats
    - Maisie the mouse!
  - ▶ March (3)
  - ▶ January (5)
- ▶ 2011 (75)
- ▶ 2010 (19)

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**MONDAY, 16 APRIL 2012**

**Harthill Primary School Problems**

Here are the answers from our pupils to the problems suggested by our friends from Harthill Primary School

Kieron's Cats

# Brain Development of My Students



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Brain Before Fun and Maths

Brain After Fun and Maths

# Results



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# eQNet



## Maths and ICT

- Explore
- Try
- Evaluate



# Travel Well Resources

# LRE for Schools



## Maths and ICT

The screenshot shows the homepage of the Learning Resource Exchange for schools. At the top left is the LRE logo with the text "Learning Resource Exchange for schools". To the right is the "European Schoolnet" logo and a language dropdown menu set to "English (en)". A navigation bar contains links for Home, News, About, Community, Using the portal, For content providers, eQNet, Topics, and Insafe.

The main content area is divided into several sections:

- Find resources:** Includes search filters for Languages, Subjects, and Providers, a "GO" button, and a checkbox for "Search only travel well resources". Below this is a "Find by tags" section with a list of tags such as "biology", "CLIL", "Copyright", "Cyberbullying", "Data security", "Digital citizens", "Digital literacy", "e-commerce", "electricity", "English vocabulary", "foreign languages", "geography", "History", "Information literacy", "interactive maths", "Media literacy", "MFL", "Online chat", and "Online identity".
- Highlighted resources:** Displays four resource thumbnails: "Aplusclick Grade 9 D...", "Aplusclick Grade 5 G...", "Aplusclick Grade 3 A...", and "Aplusclick Grade 1 A...".
- Languages:** Displays four resource thumbnails: "The Tropical Rainforest", "Raconte-Moi l'Afrique!", "The Khao Sok Rainforest", and "The Jianfengling Rain...".
- Login:** Includes a login field, "Create account", "Forgot your password?", and a "GO" button.
- Agencia Nazionale per lo Sviluppo dell'Autonomia Scolastica - Indire:** A logo for the Italian agency.
- New Learning Resource Exchange for schools:** A promotional banner with the LRE logo and a "Read more!" link.
- Any questions? Contact us at ire-contact@eun.org:** A contact information box with a question mark icon.

<http://lreforschools.eun.org>

# Workshop Plan



## Maths and ICT

We will see different resources and after each one of them every teacher will have about 10 minutes to explore it:

- **Explore**
  - Mr Naussbaum;
  - Funny Learn;
  - Brain Safari;
  - Starter of the Day;
- **Assess**
  - Sheppard Software;
  - Tutpup
  - Arcademic Skill Builders
- **Create (Microsoft Tools)**
  - Flashcards, Mouse Mischief and Kodu





Lisbon, Portugal  
31st May – 2nd June 2012

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# EXPLORE

EXPLORER

# Mr. Nussbaum



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Visita-nos no **facebook** e ganha fantásticos prémios

Porto Editora

MrNussbaum.com no Facebook  
Gosto 3,586

Mr. Nussbaum  
a thousand sites in one

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Games	Math	Language Arts	History	Geography	USA and States	Science	Printables	Videos
Recess	About	What's New?	Apps & Products	Mr.N Labs	Scavenger Hunts	Parents & Teachers	Site Map	Contact Me

Welcome! See below for my latest

1.2K

MrNussbaum for IPHONE, iPad & TOUCH

Learn how MrNussbaum.com is helping in Haiti!

Newest! Math Lang. Arts Soc. St. Science Games

**Sweet 16 Word Madness!** Do you like the NCAA Basketball Tournament, commonly referred to as "March Madness?" If so, this game is for you. First choose your team. Then, use your word recognition and spelling

Memory  
Speed  
Attention  
Problem Solving  
Flexibility

Your brain, just brighter

Start Training

<http://www.mrnussbaum.com/>

# Funny Learn



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Online Interactive Educational Learning

**FUNNY LEARN**  
WWW.FUNNYLEARN.COM

Paint it Kids Kindergarten Coordinates Math Geography Alphabet Spanish American English Contact  
Songs Maps Language Sign Langua Language Num

**Categories**

- Addition Math
- Subtraction Math
- Multiplication Math
- Fractions Division Math
- Time Clock Math
- Algebra Math
- Measurement Math
- Music
- Factors and Multiples Math
- Geometry Math
- Health
- Money Math
- Number Sense Math
- Problem Solving Math
- Online Math Tools
- Counting Math
- Order of operations
- Percent Math
- English Language
- English Language Numbers

**Multiplication Math Category**

**ADS**

DESCUBRA O PRAZER DO CACAU AQUI

NOVO  
**MAGNUM INFINITY**  
*O prazer é para quem o procura*

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AdChoices ▶

**Ads**

hairstyle

**Stats**

Total :	287
Category:	29
Views :	40584432
Tags :	250
Online :	150

[www.funnylearn.com](http://www.funnylearn.com)

# Brain Safari



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[http://www.freegamesjungle.com/brain\\_safari.html](http://www.freegamesjungle.com/brain_safari.html)

# Starter of the day



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MATHS  
**STARTER**  
OF THE DAY

Start your Maths Lesson with our Starter Of The Day. Boost your mind power with this brain exercise. Give your mental ability a work out with a range of mathematical puzzles, speed tests and creative ideas. Click on the date in the calendar below for the Starter Of The Day.

February 2012						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29			

Last Month Home About Contents Topics Next Month

[Ads by Google](#) [Mental Math](#) [Mental Maths](#) [Math Worksheets](#) [Maths Exercise](#)

Google Custom Search Search

[http://www.transum.org/Software/SW/Starter\\_of\\_the\\_day/index.htm](http://www.transum.org/Software/SW/Starter_of_the_day/index.htm)





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# Maths and ICT

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# ASSESS



# Sheppard Software



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For kids: **Animals** **Preschool** **Nutrition** **Seasons** **USA**  
 usa | world | animals | language arts | health | science | math | preschool | brain

### Math

Early Math k - 2	Basic Operations	Mixed Operations	Time	Place Value	Dollars & Cents	Measuring	Fractions	Decimals	Algebra

Other topics: **Integers, Factors**

**Basic OPERATIONS:** learn basic addition, subtraction, multiplication and division.

PICTURE MATH	Addition Subtraction	Multiplication Division	Addition Subtraction	Multiplication Division	Matching Mania
Balloon Pop	Balloon Pop	Math Madness	Monkey Drive: Add, Subtract	Number Lines Addition	Math Lines

#### Popular Games

1. Monkey Drive
2. Fruit Shoot Addition
3. Pop Up Addition
4. Math Man
5. Clock Shoot

#### What's new?

##### "Now Improved"



Multiply up to 12  
 Multiply up to 27  
 Multiply up to 49

[www.sheppardsoftware.com](http://www.sheppardsoftware.com)

# Tutpup (Beta Version)



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BETA

# Tutpup



Hall of Fame

[Send us feedback](#)

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## Play Compete Learn

Welcome to Tutpup, where you can compete in fun, educational games against other kids from all over the World!  
Read more [about us](#).

Login

Join Now!

[Help for parents >](#)



Want more puzzles? Check out Moshi Monsters!  
Tutpup is part of the Moshi Monsters family of fun, educational games

### Maths 101



Add, Subtract, Multiply or Divide numbers in a race against the clock.

### Spelling



Listen to a spoken word and spell it out, beat your opponent and the clock.

### Maths Mix



Pay attention to the operator and beat your opponent in a race against the clock.

### Times Tables



Times table multiplication game for the numbers 2 to 12.

[www.tutpup.com/](http://www.tutpup.com/)



GOVERNO DE PORTUGAL

MINISTÉRIO DA EDUCAÇÃO E CIÊNCIA

Direção-Geral da Educação



Programa de Aprendizagem ao Longo da Vida

# Arcademic Skill Builders (Beta Version)



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<http://www.arcademics.com/>



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# CREATE



# Microsoft Flashcards



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Microsoft® Education Labs

# Flashcards

<http://flashcards.educationlabs.com>

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# Microsoft Mouse Mischief



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<http://www.microsoft.com/multipoint/mouse-mischief/en-us/default.aspx>

# Microsoft Kodu



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<http://www.youtube.com/watch?v=vVbUhRo5m3U&feature=g-all-u>





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# THANK YOU

You can find me on:

Facebook: [rui9lima@yahoo.com](mailto:rui9lima@yahoo.com)

Twitter: [@rui9lima](https://twitter.com/rui9lima)

My Website: <https://sites.google.com/site/schoolenovation/>