

Cool Online Tools for Math, Reading & Test Prep

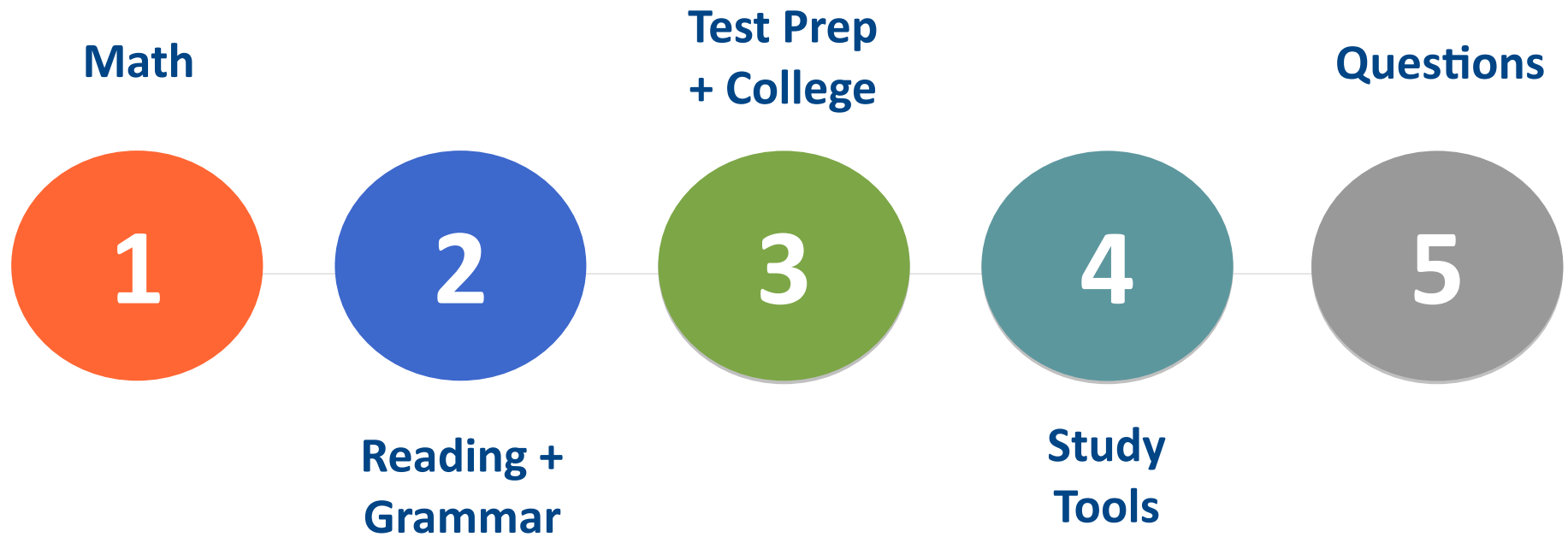
Christina Chase

Firehoze

MIT Splash Fall 2011 Parents' Program

November 19, 2011

Agenda



Note: This is not meant to be a comprehensive list but an overview of the types of resources available to students.



Math

1

Math



1

Math

- Cyberchase
- Funbrain
- AplusMath
- MathBlaster





Math

when you need

a little more...

1

Math

Exponents

Exponents are also called **Powers** or **Indices**

The **exponent** of a number says **how many times** to use the number in a multiplication.

In this example: $8^2 = 8 \times 8 = 64$

In words: 8^2 could be called "8 to the second power", "8 to the power 2" or simply "squared".

base

explanations

Some more examples:

Example: $5^3 = 5 \times 5 \times 5 = 125$

- In words: 5^3 could be called "5 to the third power", "5 to the power 3" or simply "5 cubed"

Example: $2^4 = 2 \times 2 \times 2 \times 2 = 16$

- In words: 2^4 could be called "2 to the fourth power" or "2 to the power 4" or simply "2 to the 4th"

1

Math

- Cool Math
- Math is Fun
- Khan Academy
- Firehoze

Exponents

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Example: $2^4 = 2 \times 2 \times 2 \times 2 = 16$

- In words: 2^4 could be called "2 to the fourth power" or "2 to the power 4" or simply "2 to the 4th"



explanations

2

Reading + grammar

2

Reading + grammar

The screenshot shows the Funbrain website interface. At the top, there is a navigation bar with the Funbrain logo and several menu items: 'math arcade', 'reading', 'fun arcade', 'playground', and 'all games'. The main content area features a game titled 'Rooting Out Words' with the word 'more' in large blue letters. Below the title, there is a question: 'If the prefix **chrono-** means **time**, an illness lasting for a very long time, is said to be?'. A list of options is provided:

- [chronic](#)
- [chronological](#)
- [chronicle](#)
- [anachronism](#)

 To the right of the question, there is a cartoon dog and a mushroom. Below the question, there is a score table:

FUNBRAIN.COM	
Correct	Incorrect
0	0

 Below the table, there is a link: 'Easier - Games'. To the right of the table, there is a button: 'Click Here for New Games FUNBRAIN.COM'. On the far right, there is a vertical banner for 'PopTropica: GAME SHOW ISLAND' with the text 'AVAILABLE NOW WITH MEMBERSHIP' and an illustration of a game show set.

2

Reading + grammar

- Funbrain
- Modern Library
- Road to Grammar
- Quia

The screenshot shows the Funbrain website interface. At the top, there is a navigation bar with icons for 'math arcade', 'reading', 'fun arcade', 'playground', and 'all games'. The main content area features a large blue banner with the text 'more games' and a cartoon dog. A game titled 'Rooting Out Words' is highlighted, with a description: 'If the prefix **chrono-** means **time**, an illness lasting for a very long time, is said to be?'. Below the description is a list of options:

- [chronic](#)
- [chronological](#)
- [chronicle](#)
- [anachronism](#)

 A score table shows 'Correct 0' and 'Incorrect 0'. A 'Click Here for New Games' button is visible at the bottom. On the right side, there is a vertical banner for 'PopTropica: GAME SHOW ISLAND' with the text 'AVAILABLE NOW WITH MEMBERSHIP'.

2

Reading + grammar



Big Dog's Grammar
A bare bones guide to English

MLA Quick Guide

explanations

- Subjects
- Verbs
- Prepositions
- Fragments
- Comma-splices
- Fused sentences
- Joiners
- Agreement:
 - subject-verb
 - Agreement: pronoun-antecedent
- Dangling modifiers
- Misplaced modifiers
- Parallel structure
- Reference
- Pronouns: miscellaneous
- Consistency
- Active/passive constructions

2

Reading + grammar

- ReadWriteThink
- Big Dog's Grammar
- Guide to Grammar and Writing



explanations

- Subjects
- Verbs
- Prepositions
- Fragments
- Comma-splices
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- Misplaced modifiers
- Parallel structure
- Reference
- Pronouns: miscellaneous
- Consistency
- Active/passive constructions

3

Test Prep + College

3

Test Prep + College

SAT Study Plan: Tell us a few things about yourself, and we'll recommend the best study plan.

Which test will you take? ▾

How many times have you taken it? ▾

When will you take it? ▾

Answers Imagined: Watch creative approaches to answering SAT questions >

SAT Skills Insight™: Pinpoint the skills you need to do better on the test >

SAT Subject Tests™ Approaches: Here's what you should know >

Tip #10: You may use a calculator.

[More tips](#)

test prep

3

Test Prep + College

- SparkNotes
- College Board
- Knewton
- PrepMe
- INeedAPencil.com

The collage features four cards with the following content:

- SAT Study Plan:** Tell us a few things about yourself, and we'll recommend the best study plan. Includes dropdown menus for: "Which test will you take?", "How many times have you taken it?", and "When will you take it?".
- Answers Imagined:** Watch creative approaches to answering SAT questions > (Illustration of a character holding a pencil over a globe).
- SAT Skills Insight™:** Pinpoint the skills you need to do better on the test > (Illustration of a character using a compass on a tangled line).
- SAT Subject Tests™ Approaches:** Here's what you should know > (Illustration of a character at a desk with a calculator). Includes "Tip #10: You may use a calculator." and a "More tips" link.

A large blue "test prep" watermark is overlaid across the center of the collage.

3

Test Prep + College



3

Test Prep + College

- TeenLife
- Mapping Your Future
- eCampusTours
- NextStepU
- EqualApp



4

Study Tools

4

Study Tools

Calculus Help

Click your Calculus textbook below for homework help. Our answers explain actual Calculus textbook homework problems. Each answer shows how to solve a textbook problem, one step at a time.

Calculus: Essential Calculus



Brooks/Cole
James Stewart
Availability
View Solutions

Calculus: Early Transcendentals




Brooks/Cole
James Stewart
Availability
View Solutions

Calculus: Early Transcendentals



Brooks/Cole
James Stewart
Availability
View Solutions

Calculus: Vector Functions



Brooks / Cole
James Stewart
Availability
View Solutions

Calculus, 6/e



Brooks/Cole
James Stewart
Availability
View Solutions

Calculus, 5/e



Brooks/Cole
James Stewart
Availability
View Solutions

flashcards
quizzes +
homework help

4

Study Tools

- Quizlet
- TenMarks
- BJ Pinchbeck's Homework Helper
- Hotmath

Calculus Help

Click your Calculus textbook below for homework help. Our answers explain actual Calculus textbook homework problems. Each answer shows how to solve a textbook problem, one step at a time.

Calculus: Essential Calculus

Brooks/Cole
James Stewart
Availability



View Solutions

Calculus: Early Transcendentals

Brooks/Cole
James Stewart
Availability



View Solutions

Calculus: Early Transcendentals

Brooks/Cole
James Stewart
Availability



View Solutions

Calculus: Vector Functions

Brooks / Cole
James Stewart
Availability



View Solutions

Calculus, 6/e

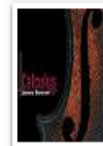
Brooks/Cole
James Stewart
Availability



View Solutions

Calculus, 5/e

Brooks/Cole
James Stewart
Availability



View Solutions

flashcards
quizzes +
homework help

5

Questions

6

Appendix

6

Appendix

Additional links to sites and games mentioned during the talk.

Math

Cyberchase By PBSkids *(look under **Find It!** for games by subject matter)*

- Crack Hacker's Safe (game)
- Jigsaw Puzzle Size Up (game)
- Virtual Coin Toss (game)
- Parents Section

Cool Math

- Math Survival Guide: Heal the Past, Conquer Anxiety and Build Success (text)
- Coolmath Precalculus Review and Calculus Preview (text)

Reading + grammar

Funbrain

- Rooting out Words (game)
- The Plural Girls (game)
- Grammar Gorillas (game)

ReadWriteThink *(under **Parent & Afterschool Resources**)*

- Online Profile Tips, *under Resources for Grades 9 – 10/Printouts, See All Grades 9 – 10 Printouts* (text)

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