

FAMILY MATH – Useful Websites

Online Math Dictionaries & Materials

The following online resources can help define and explain many mathematics terms and concepts.

- **A Math Dictionary for Kids**
<http://www.amathsdictionaryforkids.com/math/dictionary.html>
- **Harcourt Multimedia Math Glossary**
http://www.harcourtschool.com/glossary/math_advantage/index.html
- **Hand Made Manipulative Instructions**
<http://mason.gmu.edu/~mmankus/Handson/manipulatives.htm>
http://wps.ablongman.com/ab_vandewalle_math_5/0,7959,796754-.00.html
- **Math Playground – Math Videos**
<http://www.mathplayground.com/mathvideos.html>

Ministry Resources

- **Ministry of Education (curriculum documents & exemplars)**
<http://www.edu.gov.on.ca/eng/curriculum/elementary/math.html>
- **Helping your child do math – A guide for parents**
<http://www.edu.gov.on.ca/eng/literacynumeracy/parentGuideNum.pdf>
- **Supporting Your Child’s Learning – Podcast Series**
<http://www.curriculum.org/secretariat/SYCL.shtml>

Fun and Interactive Websites

- **The Math Forum - Ask Dr. Math**

Post questions and take part in a discussion or search the archives for past problems.

<http://mathforum.org/library/drmath/drmath.elem.html>

- **Coolmath 4 Kids**

An "amusement park" full of math activities and games.

<http://www.coolmath4kids.com> Grades K-5
<http://www.coolmath-games.com/> Grades 3-8

- **Funbrain Kids Center: Numbers**

More than ten great online games on different math topics.

<http://www.funbrain.com/numbers.html>

- **Math Maven's Mysteries**

Solve these math mysteries by solving math problems.

<http://teacher.scholastic.com/maven/index.htm>

- **PBS Kids Cyberchase - Web Activities**

Kids can play on their own, with friends or with the support of a parent. Browse the guide and click on the links to get started!

http://pbskids.org/cyberchase/parentsteachers/lessons_web.html

- **Children’s Literature and Mathematics**

Bring math to life when reading these fun stories. The following links have a list of books listed by topics.

<http://literacy.kent.edu/Oasis/Resc/Educ/mathkidslit.html>
<http://www.geocities.com/Heartland/Estates/4967/math.html>
<http://www.sju.edu/libraries/drexel/lrgs/edmathlitlrg.htm#lit>

- **Hands-On Puzzles – Grades 1-8**

Over 100 puzzles, sorted by grade level and easy to use with your kids.

<http://www.puzzles.com/PuzzlesInEducation/HandsOnPuzzles/AllGrades.htm>

- **Study Jams**

A collection of math topics and activities.

<http://www.studyjams.scholastic.com>

Questions???

Questions to ask BEFORE beginning a problem:

- Can you tell me what you know now? What math facts do you have?
- What did you learn in class today?
- What do you need to find out? Can you estimate the answer?
- How might you begin? What can you try first?
- Can you make a drawing or picture to get started?

Questions to ask DURING a problem:

- How can you organize your information? Will a list or table help?
- What would happen if ...? Show me what you did that didn't work.
- Can you explain the strategy you're using to solve this?
- Why did you ...?
- What could you do next? Do you see any patterns?

Questions to ask AFTER completing a problem:

- Does that answer make sense? Why do you think that?
- How did you get your answer? Do you think its right?
- Convince me that your solution makes sense. Explain it in a different way.

PROBLEM SOLVING STRATEGIES

Act it out
Draw a picture
Look for a pattern
Guess and check
Use an organized list
Make a table or chart
Make a simpler problem
Work backwards
Use logical reasoning
Other

