

# 10 Best Web Sites to Enrich Your Elementary Math Curriculum



Connected Classroom Conference

# Little Introduction



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- Classroom Connect (4 yrs.)
- National Learning Specialist
- Educational Background (20 yrs.)
- El. Teacher
- Middle School Teacher
- Tech Coordinator
- District Administrator

# Conference Resources

<http://twi.classroom.com/workshops/lskelly>



# The six principles for school mathematics

- address overarching themes:
  - Equity.** Excellence in mathematics education requires equity—high expectations and strong support for all students.
  - Curriculum.** A curriculum is more than a collection of activities: it must be coherent, focused on important mathematics, and well articulated across the grades.

Source- NCTM: Principals and Standards for School Mathematics

## Six Principles for School Mathematics

- address overarching themes:
  - **Teaching.** Effective mathematics teaching requires understanding what students know and need to learn and then challenging and supporting them to learn it well.
  - **Learning.** Students must learn mathematics with understanding, actively building new knowledge from experience and prior knowledge.

## Six Principles for School Mathematics

- address overarching themes:
  - **Assessment.** Assessment should support the learning of important mathematics and furnish useful information to both teachers and students.
  - **Technology.** Technology is essential in teaching and learning mathematics; it influences the mathematics that is taught and enhances students' learning.

## Standards & Expectations (NCTM)

1. Number & Operations
2. Algebra
3. Geometry
4. Data Analysis and Probability
5. Problem Solving
6. Reasoning and Proof
7. Communication
8. Connections
9. Representation



## What Are Your State Standards?

- Washington
  - Washington State Standards
    - <http://www.k12.wa.us/curriculum/instruct/math/default.asp>
- Florida
  - Sunshine State Standards
    - <http://sunshinestatesstandards.net/>
- Illinois
  - Illinois Learning Standards
    - <http://www.isbe.state.il.us/ils/>
- California
  - Content Standards for CA Public Schools
    - <http://www.cde.ca.gov/board/>

## Math Instruction: Ten Components of Effective Schools

<http://www.tea.state.tx.us/math/TenComEffSch.htm>

- Aligned curriculum
  - aligned between the state standards, teaching objectives, textbooks, materials, and assessment
- Increased and Effective Use of Instructional Time
  - 60 to 90 minutes per day
    - students performing at or above grade level
  - additional instructional time
    - students having difficulty mastering math concepts
- Ongoing Assessment
- Immediate Intervention for Students Experiencing Difficulty Mastering Concepts

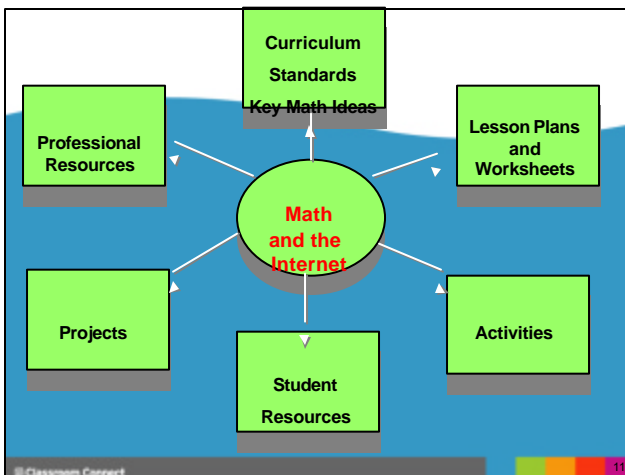
Source: Texas Math Initiative

## Math Instruction: Ten Components of Effective Schools

<http://www.tea.state.tx.us/math/TenComEffSch.htm>

- Teacher Knowledge of Mathematics Content
- Instructional Materials and Teaching Techniques
- Differentiated Instruction
  - Schools and classrooms are organized so that students with similar needs receive effective instruction through flexible skill grouping
- Focused Professional Development
- End of Year Analysis of Student Performance
- Sound Administrative Practices

Source: Texas Math Initiative



## 10

## Problem Solving

- Figure This! Math Challenges for Families
  - <http://www.figurethis.org/challenges/c29/challenge.htm>



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## Figure This! Math Challenges for Families

- For Students
  - Grades 3-5
- Problem solving
  - Real world problems
- Content
  - Algebra
  - Geometry
  - Measurement
  - Number
  - Statistics and Probability



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## Problem Solving

- Kidspych
  - <http://www.kidspych.org/>



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## Kidspych

- For students
  - Ages 1-9
- Creative problem solving
- Logic



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## General Math Resources

- CoolMath4Kids
  - <http://www.coolmath.com/>



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## Coolmath4Kids

- For Students
  - Pre-school to Grade 5
- Math games
- Calculators
- Lessons
- Online Tools




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## Student Resources

- Fact Monster
  - <http://www.factmonster.com/mathmoney.html>




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## Fact Monster

- For Students
  - 3-5
- Tutorials: Almanac Section
  - Numbers
  - Measurement
  - Money
  - Tables and Formulas
- Special Features
- Games and quizzes




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## General Math Resources

- <http://www.aplusmath.com/>




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## A+ Math

- For students
  - K-5
- Flashcards
- Games
- Homework Helper
- Worksheets



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## Problem Solving

- Count On
  - <http://www.counton.org>



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## Count on

- For students
  - Grades 3-5
- Content
  - Numeration
  - Computation
  - Measurement
- Games and Mysteries
- Online tools



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## Creating Graphs

- Create a Graph
  - <http://nces.ed.gov/nceskids/graphing/>



# 4

## Create A Graph

- For Students
  - Grades 3-5
- Creating charts and graphs
- Plotting Points




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# 3

## Tutorial

- KidsBank.com
- [http://www.kidsbank.com/index\\_2.asp](http://www.kidsbank.com/index_2.asp)




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# 3

## KidsBank.com

- For students
  - Grades 2-5
- Online Tutorial
  - Money and Banking
- Calculators
- Ask an Expert
- Games
- Online quizzes




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# 2

## Lesson Plans

- PBS TeacherSource
- [www.pbs.org/teachersource/math.htm](http://www.pbs.org/teachersource/math.htm)




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## 2

### PBS TeacherSource

- For Teachers
  - All grades
- Lesson plans
- Featured lesson and activities
- Online video
  - Best practices



### And the "Number 1" site is...



## 1

### Online Math Tools

- Interactive Mathematics
  - <http://matti.usu.edu/nlvm/nav/vlibrary.html>



## 1

### Interactive Mathematics

- For Students
  - Grades K-5
- Virtual tools
  - Number and Operations
  - Algebra
  - Geometry
  - Measurement
  - Data Analysis & Probability



# 1

## Online Projects

- WebQuest Page  
– <http://webquest.sdsu.edu/>



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# 1

## WebQuest Page

- For Students  
– Grades 3-5
- Across the curriculum projects
- Integrating technology into mathematics



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## Did I Forget Any Sites?



Honorable mention sites!

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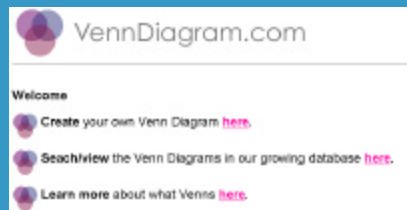
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## Creating Venn Diagrams

- VennDiagram.com  
– <http://www.venndiagram.com/>



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## Math Skills Builder

- Edbydesign.com:  
• <http://www.edbydesign.com/automath.html>



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## Math Resources

- Math Forum:  
• <http://mathforum.com/t2t/>



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## For More Info:



**Ladd Skelly**

[Lskelly@classroom.com](mailto:Lskelly@classroom.com)

Connected Conferences Site:

<http://corporate.classroom.com/cc.html>

Session Web Site (PDF Files):

<http://twi.classroom.com/workshops/lskelly>

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