Everyday Mathematics

Program Overview

Why Did We Choose Everyday Mathematics?

- Developed, researched, and field-tested by University of Chicago to improve student math achievement
- Rigorous mathematics curriculum
- Proven results with 175,000 schools and 2.8 million students across the country
- Prepares students for short-term (CMT) and long-term (Global Marketplace)

CMT Math Scores

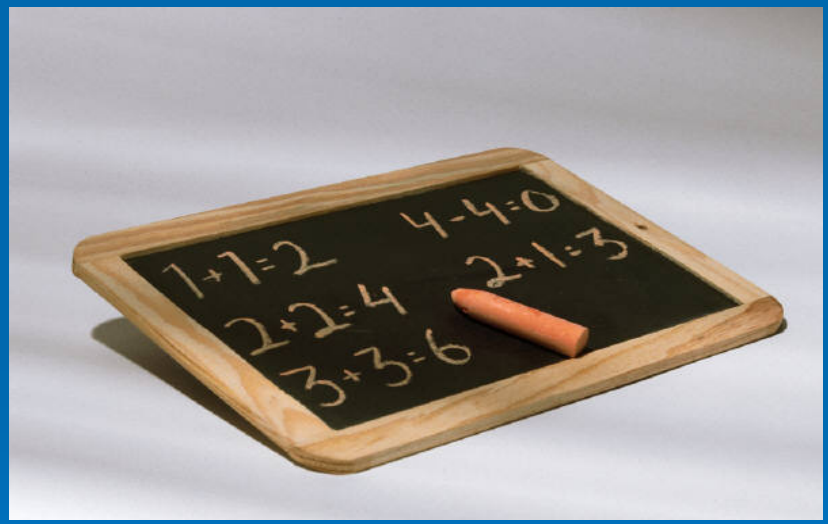
- Greenwich's CMT Math Scores had not shown expected growth over last five years.

- The District is using the Everyday Mathematics program as well as other strategies to improve math learning and, therefore, CMT Math scores.

Content Strands

- Numeration and Counting (patterns, decimals, fractions, whole numbers)
- Operations and Relations (facts)
- Problem Solving and Number Models (mental and written math)
- Measures and Reference Frames
- Exploring Data
- Geometry
- Rules and Patterns
- Algebra and Uses of Variables

A Math Lesson



- Review Homelink (K-3) or StudyLink (4-5)
- Mental Math (Math Facts)
- Math Message (Word Problems)
- Teach the Lesson (New Concept)
- Ongoing Learning (Review)
- Options for Individualizing (Enrich or Extra Practice)

Why Have We Adopted this Lesson design?

- Mathematics is taught in a Spiral
  - Similar to Development of Reading Skills
- Provides multiple exposures to concepts
- Utilizes all learning styles (teacher-led, discussions, small group, partners, individual)
- Provides hands-on experiences, games, worksheets, and on-going assessments

Algorithms

- What are they?
  - Ways to Solve a Problem

- Why does Everyday Mathematics show multiple ways to solve problems?
  - To show students math contains patterns
  - Math problems can be solved in many ways
  - Increase student understanding and usage of mathematical thinking

Algorithm Example

- Solve and Explain:
  - 37+13+9
  - 25+4+15

- How did you solve it?
  - (37+3)+10(+9) =59
  - (25+5)+10(+4) =44
  - Students are taught number patterns. Basically, create an algebraic expression.

- Secure skill for 3rd grade students to do MENTALLY

Frequently Asked Questions

- What is a Spiral Curriculum and will my child ever MASTER a concept?
  - A Spiral Curriculum allows for multiple exposures over time. Increases retention and application of information.
  - Beginning, Developing, Secure: A Three-Year Cycle

- Will my child learn basic facts?
  - Yes! It's a District Expectation.
  - Math Message, Mental Math, Math Boxes, Games, Math Journal, Slate Work, Skills Link, etc.

- How is my child's progress measured?
  - Observations, Journal, Math Boxes, Rubrics, Lesson Quizzes, Unit Tests, Grade Level Goals

Frequently Asked Questions?

- What if my child is struggling?
  - Provides multiple exposures, different types of learning, specific lessons for extra practice
- Why does my child play games?
  - Increase student memory of basic facts
- Will my child be prepared for the CMT?
  - Yes! Everyday Math is Aligned with the Connecticut Mastery Test grade level expectations
- How can I help my child?
  - Homelinks/Studylinks
  - Encourage “Math Thinking”

Resources

- www.nctm.org (Nat'l Council: Teachers of Math)
- http://everydaymath.uchicago.edu/parents/index
- www.mathematicallysane.com
- www.rbs.org (Research for Better Schools)
- http://nces.ed.gov/timss (TIMSS Study)

The New Science CMT

General Test Format

- The Science CMT is a cumulative test administered at Grades 5 & 8.
  - It tests science knowledge described in the Core Science Curriculum Framework for grades 3-8
  - There are a total of 39 test questions on the Grade 5 test and 48 on the Grade 8 test.
  - The grade 5 test is 65 minutes long and the grade 8 test is 70 minutes.

Format of the Science CMT - Grade 5 & 8

	Content Knowledge		Scientific Inquiry, Literacy and Numeracy	
	Selected Response*	Constructed Response*	Selected Response*	Total Points
Life Science	6/10	1	6/5	14/17
Physical Science	6/10	1	6/5	14/17
Earth Science	6/10	1	6/5	14/17

Curriculum-Embedded Performance Tasks

- SDE has developed curriculum-embedded performance tasks related to one Content Standard from Grades 3 - 8. The Science CMTs will include two to three Scientific Inquiry, Literacy and Numeracy selected response items related to each of the embedded performance tasks.

Reporting

- A Total Science Score will be reported. In addition, the following subscores will be reported:
- Life Science
- Physical Science
- Earth Science
- Content Knowledge
- Scientific Inquiry, Literacy and Numeracy

The End