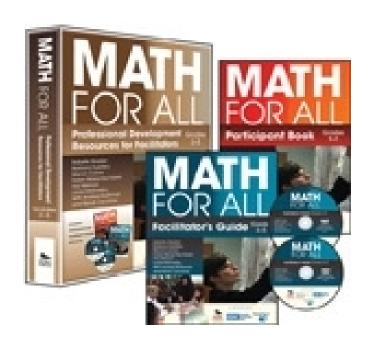
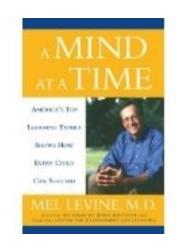
Windsor BOE Curriculum Committee

Tuesday, December 4, 2012 4:30 PM Curriculum Committee, L.P. Wilson Community Center, Room 17, 601 Matianuck Avenue, Windsor, CT 06095

- 1. Call to Order, Pledge of Allegiance, Moment of Silence
 - 2. Math for All
- 3. Algebra II, Part 2 textbook
 - 4. Adjournment

Math For All Professional Development





<u>Math for All</u>

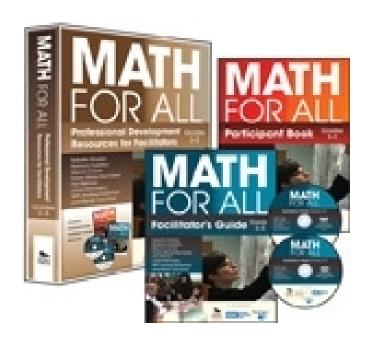
A powerful professional development program developed by a team of math and special educators from Bank Street College of Education and the Educational Development Center (EDC) through a research study funded by the National Science Foundation to assist districts as they implement Common Core Standards Based math education with a wide range of learners including those with disabilities.

Math for All:

- is a ground-breaking multimedia professional development math program
- utilizes collaboration between special education and general education teachers
- trains teachers to provide high quality, standards
 -based math instruction for grades K 5 to all
 students, including ESL students, those with
 disabilities, and others with different learning
 styles.

Math for All Professional Development

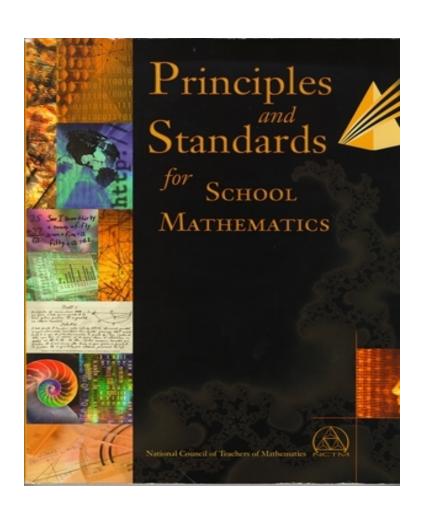
 Math For All has been extensively fieldtested with over 300 teachers from 14 school districts across the country.



Overall Purpose of the <u>Math for</u> <u>All</u> Professional Development

 Enhance teachers' ability to <u>plan</u> and <u>implement</u> accessible math lessons in which learners with diverse strengths and needs have an opportunity to achieve standards-based learning outcomes.

NCTM Standards



"All students, regardless of their personal characteristics, backgrounds, or physical challenges, must have opportunities to study—and support to learn—mathematics. Equity does not mean that every student should receive identical instruction; instead, it demands that reasonable and appropriate accommodations be made as needed to promote access and attainment for all students."

NCTM, 2000

Common Core Standards

All students, including those with disabilities, "must have the opportunity to learn and meet the same high standards if they are to access the knowledge and skills necessary in their post school lives."

CCSSI, 2010

COMMON CORE STATE STANDARDS FOR

Mathematics



Facilitators

Joyce Hamilton and Cay Freeman

 Engaged in five days of online synchronous training sessions

 Provide five full days of training for teachers in grades 3-5

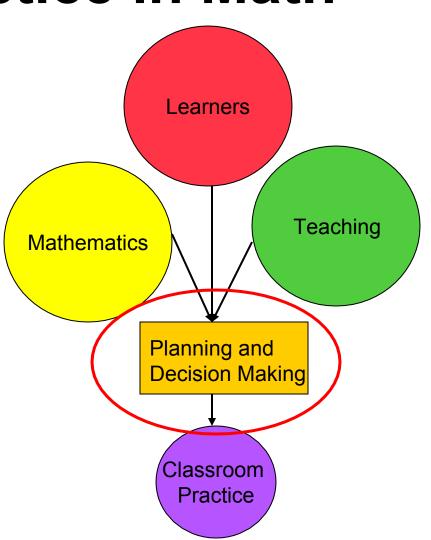
Teachers

 Twenty teachers from Kennedy and Clover Elementary Schools

 Combination of special education teachers and general education teachers

Key Competencies for Effective Inclusion Practice in Math

- Understanding mathematics
- Understanding of the strengths and needs of individual learners
- Understanding of alternative instructional strategies and designs
- Skill in applying this knowledge flexibly in the classroom



Learning Goals

- Deepen the teacher's understanding of the math of specific lessons.
- Deepen the teacher's understanding of individual student's strengths and needs.
- Deepen the teacher's understanding of instructional strategies for teaching math.
- Enhance the teacher's skill in planning accessible math lessons.
- Foster collaboration among all the educators who work with a child.

Modes of Work

 Use video to examine specific math lessons and teaching and learning issues in-depth.



• Foster collaboration between general and special educators.



 Apply what is learned in each workshop in the classroom.



 Based on assumption that learning is not a one dimensional process but rather involves eight different neurodevelopmental functions which interact to enable students to acquire skills and knowledge or accomplish school tasks.

Eight Neurodevelopmental Functions

- Higher order thinking
- Language
- Spatial ordering
- Sequential ordering
- Memory/attention
- Psychosocial/social thinking
- Motor coordination

| WORKSHOP 1 WORKSHEET | ID: ACCESSIBLE LESSON PLANNIN | NG CHART | |
|---|---|---|--|
| Name of Activity or Lesson Explored: Focal Student Name: | Arranging Chairs Jashandeep | | |
| s (Barringer, Pohlman, & Robinson, 2010; Levine, 2002; Pohlman,2008) | What roles do these learning areas play in the Arranging Chairs activity? | How does Jashandeep respond to the demands of the task? Please note strengths and needs below. | How did Cindy Wang change the Arranging Chairs activity and what teaching practices does she use to make it more accessible to Jashandeep? What additional |
| using and forming concepts solving problems logical thinking creative and critical thinking | | | change would you make? |
| understanding mathematical language using language to communicate with others and to clarify one's ideas | | | |

| WORKSHOP 1 WORKSHEET 1 | D: ACCESSIBLE LESSON PLANNIN | IG CHART | |
|---|------------------------------|----------|--|
| interpreting relationships within and between spatial patterns organizing things in space reasoning with images | | | |
| organizing information in sequence following directions managing time | | | |
| short-term memory active working memory long-term memory | | | |

| WORKSHOP 1 WORKSHEET 1 | D: ACCESSIBLE LESSON PLANNIN | IG CHART | |
|---|------------------------------|----------|--|
| controlling mental energy maintaining focus self-monitoring | | | |
| using and understanding social language collaboration conflict resolution | | | |
| gross motor functions fine motor functions grapho-motor functions | | | |

- Each learner has a unique neurodevelopmental profile, a pattern of strengths and weaknesses in different neurodevelopmental functions.
- When teachers understand these functions they can plan their lessons to take advantage of students strengths and address their weaknesses.

Collaboration is the key:

Says *Hal Melnick*, one of the program's authors:

One outcome of the project has been a heightened awareness of the important knowledge owned by two sets of professionals: the special education and the general education teachers. The general education teacher brings a strong sense of the whole math curriculum for the year and offers ways to schedule and plan for deep learning to an entire group of students. The special educator has been trained to focus on individual learners and to anticipate the strengths and needs students with disabilities bring to a task.

Math for All provides a structured opportunity for schools to change their culture so that both groups plan their lessons to equitably meet every child's needs. Both sets of professionals, when planning together, create something that is impossible for one or the other group to master alone.

TEXTBOOK ADOPTION PROPOSAL

| OPTION A B C (Circle 1) |
|--|
| Textbook Title: Statistical Reasoning In Sports |
| Publisher: BFW Publishers; WH Freeman and Company Copyright date 2012 |
| Persons on Selection Committee Andrea Kay and Dawn Vigneault |
| Principal Mr. Russell Sills |
| State major advantages of this choice: • Easy to read |
| State disadvantages of this choice: Only sports examples Chapters are general, not a lot of detailed explanations |
| Cost: \$98.95 |
| Curriculum Council Comments |
| |
| |

TEXTBOOK ADOPTION PROPOSAL

| OPTION A B C (Circle 1) |
|--|
| Textbook Title: Statistics in Action: Understanding a World of Data 2 nd edition |
| Publisher: Kendall Hunt Copyright date 2008 |
| Persons on Selection Committee Andrea Kay and Dawn Vigneault |
| Principal Mr. Russell Sills |
| State major advantages of this choice: • Lots of examples and hands on activities • Variety of topics |
| State disadvantages of this choice: Only AP edition available High reading level Very technical in writing; students may not try to read it No calculator instructions or applications shown in text |
| Cost: \$95.35 (found online) |
| Curriculum Council Comments |
| |
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PEARSON COST PROPOSAL

STATS: IN YOUR WORLD ©2012 Bock, Mariano

Prepared for: Windsor High School Windsor, CT

| November 8,2012 TITLE | <u>ISBN</u> | NET PRICE | <u>QTY</u> | TOTAL | QTY N/C | TOTAL N/C |
|--|-------------------|-----------|------------|------------|------------|--------------|
| Student Edition (HS Binding) | 978-0-13-281085-2 | \$113.97 | 80 | \$9,117.60 | | \$0.00 |
| includes free 1 yr. access to Math XL for So | ch. | | | · | | |
| Teacher's Edition | 978-0-13-708100-4 | \$103.97 | | \$0.00 | 3 | \$311.91 |
| Teacher's Solutions Manual | 978-0-13-708097-7 | \$19.97 | | \$0.00 | 3 | \$59.91 |
| Teacher's Resource Guide with Student | 978-0-13-708096-0 | \$19.97 | | \$0.00 | 3 | \$59.91 |
| Worksheets | | • | | ` | | |
| TestGen CD | 978-0-13-708099-1 | \$49.97 | | \$0.00 | 3 | \$149.91 |
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| Graphing Calculator Tutorial for Statistics | 978-0-321-41382-6 | \$14.97 | | \$0.00 | 3 | \$44.91 |
| Statistics Study Card | 978-0-321-46370-8 | \$4.97 | | \$0.00 | 3 | \$14.91 |
| TOTAL VALUE OF NO CHARGE ITEMS | | | | | | \$641.46 |

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Shipping charges guaranteed @ 6% per Greg Cantone. Prices are firm until September 30, 2013. Pearson reserves the right to correct errors.

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toll-free to: 1-877-260-2530

SHOULD YOU NEED ADDITIONAL INFORMATION, PLEASE CONTACT:

MaryAnn O'Hagan Phone: 413-525-6185

maryann.ohagan@pearson.com

TEXTBOOK ADOPTION PROPOSAL

| OPTION A B C (Circle 1) |
|---|
| Textbook Title: Stats in Your World – non AP edition |
| Publisher: <u>Addison-Wesley (Pearson)</u> Copyright date <u>2012</u> |
| Persons on Selection Committee Andrea Kay and Dawn Vigneault |
| Principal Mr. Russell Sills |
| Outline of the book mirrors the curriculum developed prior to doing the book review. This book incorporates visual models and presents information in a concrete manner. Lessons are broken into 3 sections; think, show, tell model. Lessons are aligned with 21st century rubrics established at the high school specifically Problem Solving. This book incorporates arithmetic and algebra skills and guided practice is embedded throughout sections. Graphing calculator tips are embedded within the lessons, including typical errors students might encounter with troubleshooting. Additional "What can go wrong" sections are embedded in chapters. |
| State disadvantages of this choice: Some exercises are designed for TI-Inspire not a TI-84 While the reading level is appropriate for the students in the class, it is more reading than they are used to in a math class. |
| Cost: \$113.97 X 80 = 9,117.60 + 547.06 (shipping) = \$ 9,664.66 total |
| Curriculum Council Comments |
| |

TEXTBOOK ADOPTION PROPOSAL

| (Circle 1) |
|---|
| Textbook Title: Statistics Through Applications 2 nd edition |
| Publisher: WH Freeman and Company Copyright date 2011 |
| Persons on Selection Committee Andrea Kay and Dawn Vigneault |
| Principal Mr. Russell Sills |
| State major advantages of this choice: Organization of chapters and topics is easy to follow Detailed explanations in some readings Hands on activities included in text Student website Calculator instructions and explanations imbedded into chapters |
| State disadvantages of this choice: • Sectioned readings do not have relevant /any practice exercises until end of chapter |
| Cost: <u>\$108.95</u> (found online) |
| Curriculum Council Comments |
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