# Training of Trainers May 12-13, 2014 Yakima, WA 

# OUTCOME <br> <br> for 2-Day TOT 

 <br> <br> for 2-Day TOT}

MEP/ESD participants will be able to conduct a successful regional or local Math MATTERS training for school district summer programs.

# Content Objectives 

1. Review Math MATTERS goals and outcomes. (BB)
2. Review evaluation results from Math MATTERS Year 1. (BB)
3. Review components of Cognitively Guided Instruction. (BB)

## Content Objectives

4. Explore a complete Math MATTERS lesson. (CI)
5. Explore extension activities. (CI)
6. Model scoring on various (CI) assessments.

## Content Objectives

7. Review data collection requirements. (Cl)
8. Explore instructional and professional development opportunities through MAS Space. (S)
9. Crosswalk the MM content with the CCSS math practices. (CI)
10. Support the planning of your local or regional MM training by facilitating planning and technical assistance on day 2. (P\&A)

## Language Objectives

- Reflect and discuss Math MATTERS instructional activities. (I)
- Recognize and respond orally to appropriate questioning techniques. (I \& S)
- Identify and discuss opportunities for using MAS Space. (I)
- Write notes and summary information in your Math Matters notebooks. (R\&A)


## Consortium States and Partner States



- Math scores are increasing, and several teachers commented that English language ability is also increasing.
- Many teachers commented that they saw growth in their students' math abilities.
- The curriculum is consistently described as "strong," "engaging," and "challenging."
- Teachers described gains such as "students could show that they understood the math they were doing" and "students started the summer afraid of math, but were much more confident after Math MATTERS."


## Suggestions

- Include a Table of Contents
- Provide for additional proofreading to reduce errors.
- Provide more flexibility because it is difficult for some programs (of shorter duration or home-based) to conduct all of the activities or use all of the materials available.

Math MATTERS Evaluation 23eF: Results

## Performance Measure

- Following summer programs annually, $80 \%$ of students in grades K-6 with both pre- and post-assessments in the 8 participating consortium States will increase their scores by 9\% from preassessment to post-assessment on the Math MATTERS curriculum-based assessments.


## Student Results

(ALL REPORTING STATES)

| Grade | Year 1 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | N | Mean Pre | Mean Post | $\begin{aligned} & \text { \% } \\ & \text { Gain } \end{aligned}$ | \# (\%) <br> Gaining 9\% | P value |
| K | 1,025 | 55\% | 78\% | +23\% | 861 (84\%) | <. 001 |
| 1 | 1,047 | 52\% | 77\% | +25\% | 844 (81\%) | <. 001 |
| 2 | 968 | 47\% | 73\% | +26\% | 810 (84\%) | <. 001 |
| 3 | 850 | 47\% | 73\% | +26\% | 681 (80\%) | <. 001 |
| 4 | 783 | 37\% | 65\% | +28\% | 653 (83\%) | <. 001 |
| 5 | 719 | 38\% | 65\% | +27\% | 588 (82\%) | <. 001 |
| 6 | 538 | 28\% | 53\% | +25\% | 434 (81\%) | <. 001 |
| Total | 5,930 | 45\% | 71\% | +26\% | 4,871 (82\%) | <. 001 |

## Washington State Results 2013

| Program | District | \# Stu- <br> dents* | \#took <br> pres <br> post | \# made <br> gains | \% made <br> gains | Met <br> perform <br> ance <br> goal** |
| :--- | :--- | ---: | ---: | ---: | ---: | :---: |
| MATTERS | Bridgeport | 40 | 33 | 30 | $\mathbf{9 1} \%$ | Y |
| MASTERS | Burlington | 42 | 29 | 18 | $62 \%$ | N |
| MATTERS | Grandview | 5 | 4 | 1 | $25 \%$ | N |
| MASTERS | Mabton | 11 | 10 | 3 | $30 \%$ | N |
| MASTERS | Moses Lake | 15 | 14 | 13 | $\mathbf{9 3} \%$ | Y |
| MATTERS | Mount Vernı | 21 | 19 | 14 | $74 \%$ | N |
| MATTERS | Othello | 123 | 117 | 99 | $\mathbf{8 5} \%$ | Y |
| MATTERS | Prosser | 131 | 111 | 66 | $59 \%$ | N |
| MATTERS | Sedro-Wooll | 18 | 15 | 14 | $\mathbf{9 3} \%$ | Y |
| MATTERS | Toppenish | 116 | 116 | 63 | $54 \%$ | N |
| MATTERS | Wahluke | 53 | 39 | 30 | $77 \%$ | N |
| MASTERS | Wenatchee | 167 | 154 | 143 | $\mathbf{9 3} \%$ | Y |
| MATTERS | Yakima | 317 | 239 | 206 | $\mathbf{8 6} \%$ | Y |

* number reported as having taken either the pre-test, the post-test or both the pre- and post-tests
**80\% of students with both a pre and post test score who increased their score by 9\%


## Math MATTERS and CCSS

What is the alignment between Math MATTERS and CCSS?

## Math MATTERS

## Curriculum

Approach

# Math content and 

 balanced literacy delivered through asheltered instructional
approach

What is Balanced Literacy?
Read Aloud
Arates proficient reading

- Demons children to a variety of genres
- Exposes childres to text

Shared Reading

- Models reading strategies
- Models reading standing of the reading process

Interactive Reading
acher and child ch

- Teacher and courages child to read

Guided Reading

- Child does the reading
- Teacher acts as a guide

Independent Reading

- child chooses text
- iniles at his or her level

Modeled Writing

- Demonstrates proficient writing
- Expands access to writing

Shared Writing

- Models writing strategies
- Extends understanding of the writing process Interactive Writing
- Teacher and child choose topic
- Teacher and child share pen

Guided Writing

- Teacher engages child in discussion
- child does the writing

Independent Writing

- child chooses topic
- child practices at his or her independent lev


## Curriculum Organization

## Grade Band Icons:

- K dog
- 1-2
- 3-4
- 5-6
- 7-8
- Each grade band contains 6 units.


## (GB=6 units)

- Each unit contains 3 lessons.
(Unit=3 lessons)


## LESSON COMPONENTS

- Daily Routines
- Classroom Lesson
- TV Lesson
- Follow Up Lesson
- Routine reinforcement of skills
- Literacy lesson
- Transition to Math
- Math lesson
- Math game
- Snack fractions


## How Long Will It Take

How many instructional hours will it take to complete...
...a lesson?
...a unit?
...a grade band?

## How Long Does a Lesson Take?

- Daily Routines (30-45 min)

45

- Classroom Lesson (60-90 min)
- TV Lesson (30)
- Follow Up Lesson

30
60
225 min 3.75 hours

## Required Materials

- Curriculum
- DVDs
- Teacher's guide and student BLMs
- For the TV lesson(Math concepts)
- Books

- Manipulatives and other supplies
- For the Classroom (literacy) lesson
- These are required to carry out the activities including food for snack fractions


## How Do We Order Materials?

http://projectsmart.esc
20.net

## A Curriculum Order includes:

- Operational Guide-Also available online
- K-8 Curriculum (Paper Copy and electronic copy on CD)
- Parent Guides (English/Spanish)
- Curriculum Overviews
- Assessments (English/Spanish)
- Curriculum order does not include the DVDs of the math lessons (These are required and must be ordered separately. They will be shipped weekly beginning the last week of May as they get them tapéd and duplicated.)
- For those implementing an in-home program, a digital in-home lesson booklet will be on the CD but NOT printed.


## 2014 Timeline for Directors

- Download the Operational Guide (available now!)
- Determine what grade bands will be served
- Determine number of staff needed for each grade band and post positions
- Determine total instructional hours dedicated to Math MATTERS (hours per day/days per week/weeks per summer)
- Determine which units will be covered


## 2014 Timeline (continued)

- Order curriculum (and DVDs) asap (shipped in midMay or as orders are received thereafter)
- Order books (wishlists at Amazon; look up mkernel@nwesd.org )
- Review manipulatives list and purchase, as necessary.
- Review other supply lists (snack fractions and general supplies) and purchase, as necessary.
- Plan local professional development (ESD training, PD in a Flash on MAS Space, etc.)

Questions?

## 5-Minute Reflection

- Take 1 minute to reflect on the information just presented and what you need to remember when preparing for your training.
- Create a T-chart in your Math MATTERS notebooks and label the two columns
- "Important TO DOs" and "Remember"
- Take 4 minutes to write things you want to remember and things you need/want to do to prepare for your MM trainings.

