

# Agenda

Foundation Training in Mathematics  
Day 1

<b>AGENDA</b>			
<b>WHAT (content)</b>	<b>HOW (process)</b>	<b>WHO (facilitator)</b>	<b>TIME (minutes)</b>
History of the Project Agenda	Presentation Review Discuss Questions & Answers	Math Foundations Trainers	8:30-8:45
Introductions Get to Know You Activity	<b>Bingo</b>	Math Foundations Trainers	8:45-9:15
Unit 1 Introduction to the Foundations of Math How to use the Media Products	Presentation Review Discuss	Math Foundations Trainers	9:15-10:15
Break			10:15-10:30
Survey of Elementary Teachers of Mathematics Required Readings for Units 1 and 2	Complete survey Begin Liping Ma Reading	Math Foundations Trainers	10:30-11:45
Lunch			11:45-1:00
Unit 2 Research		Math Foundations Trainers	1:00-2:15
Break			2:15-2:30
Research		Math Foundations Trainers	2:30-4:00
Required Reading Ahead of time: "Reform by the Book" (Deborah Loewenberg Ball / David K. Cohen) "Understanding Math Anxiety" (Sean Cavanaugh) "Teaching Number Sense" Griffin	"Magical Hopes" Ball "Arithmetic in American Mathematics Education" Ma "The Components of Number Sense: An Instructional Model for Teachers", Val Faulkner Read your Chapter of Liping Ma (Subtraction, Multiplication, Division of Fractions, Area and Perimeter)		
Assignments Bring a Lesson Plan to Day 1	Discussion Question for Unit 2 (Discuss in Groups on Day 2)		

Foundation Training in Mathematics  
Day 2

<b>AGENDA</b>			
<b>WHAT (content)</b>	<b>HOW (process)</b>	<b>WHO (facilitator)</b>	<b>TIME (minutes)</b>
Unit 3 Demystifying Math Part 1 and 2		Math Foundations Trainers	8:30-10:00
Break			10:00-10:15
Unit 3 Demystifying Math Part 3 and 4		Math Foundations Trainers	10:15-11:45
Lunch			11:45-1:00
Unit 4 Components of Number Sense		Math Foundations Trainers	1:00-2:15
Break			2:15-2:30
Unit 4 Components of Number Sense		Math Foundations Trainers	2:30-4:00
Reading Assignments	"Subitizing" by Doug Clements Continue reading Liping Ma Text		
Assignment	None		

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Day 3

<b>AGENDA</b>			
<b>WHAT (content)</b>	<b>HOW (process)</b>	<b>WHO (facilitator)</b>	<b>TIME (minutes)</b>
Unit 5 Quantity/Magnitude and Numeration		Math Foundations Trainers	8:30-10:00
Break			10:00-10:15
Unit 5 Quantity/Magnitude and Numeration		Math Foundations Trainers	10:15-11:45
Lunch			11:45-1:00
Unit 6 Base Ten Equality and Form of a Number		Math Foundations Trainers	1:00-2:15
Break			2:15- 2:30
Unit 6 Base Ten Equality and Form of a Number		Math Foundations Trainers	2:30-4:00
Reading Assignments	None		
Assignment	Discussion Questions for Unit 5 (Discuss in Groups on Day 4) Discussion Question for Unit 6	Learning task 5 (Structures) Learning Task 6 (Number Knowledge Test)	

Foundation Training in Mathematics  
Day 4

AGENDA			
WHAT (content)	HOW (process)	WHO (facilitator)	TIME (minutes)
Proportional Reasoning		Math Foundations Trainers	8:30-10:00
Break			10:00-10:15
Proportional Reasoning		Math Foundations Trainers	10:15-11:45
Lunch			11:45-1:00
Algebraic		Math Foundations Trainers	1:00-2:15
Break			2:15-2:30
Algebraic Thinking		Math Foundations Trainers	2:30-4:00
Required Readings	"Mathematics Education in the 21 <sup>st</sup> Century" Deborah Ball		
Assignments	Learning Task 7 (Painting Walls)		

Foundation Training in Mathematics  
Day 5 \_\_\_\_\_

<b>AGENDA</b>			
<b>WHAT (content)</b>	<b>HOW (process)</b>	<b>WHO (facilitator)</b>	<b>TIME (minutes)</b>
<b>Unit 7 Geometric Thinking</b>		Math Foundations Trainers	8:30-10:00
<b>Break</b>			10:00-10:15
<b>Unit 7 Geometric Thinking</b>		Math Foundations Trainers	10:15-10:45
<b>Survey of Elementary Teachers of Mathematics</b>		Math Foundations Trainers	10:45 - 11:45
<b>Lunch</b>			11:45 - 1:00
<b>Unit 8 Assessment</b>		Math Foundations Trainers	1:00 -2:15
<b>Break</b>			2:15 - 2:30
<b>Unit 9 Connections Evaluation</b>		Math Foundations Trainers/Participants	2:30-4:00
<b>Assignments</b>		Complete Learning Task 9 in groups.	