

Project INSPIRE Course Objectives

Strategies for Supporting Elementary Students in Building Math Skills

Lesson 1: Nemeth Code Signs of Operation, Signs of Comparison, and Switch Indicators

- 1.1 Participants will be able to read and write Nemeth Code symbols for signs of operation and signs of comparison
- 1.2 Participants will be able to read and write linear math problems using the long dash or general omission symbol to represent a missing number, sign of operation, or sign of comparison
- 1.3 Participants will be able to properly use Nemeth Code switch indicators

Lesson 2: Mathematical Comma, Decimal Point, Money, and Linear and Word Problems

- 2.1 Participants will be able to read and write the following Nemeth symbols:
 - Mathematical commas in large numbers (1,234)
 - Decimal point (.)
 - Cent sign (¢)
 - Dollar sign (\$)
- 2.1 Participants will be able to read and write linear math problems using Nemeth Code symbols
- 2.2 Participants will be able to read and write word problems using Nemeth Code symbols

Lesson 3: Grouping Symbols and Superscripts

- 3.1 Participants will be able to read and write the Nemeth grouping symbols, including the parenthesis, bracket, and brace.
- 3.2 Participants will be able to read and write the symbols for superscript (exponent), baseline indicator, and degree sign ($^{\circ}$)

Lesson 4: Formatting Materials for Students in Grades 2-5

- 4.1 Participants will be able to locate and use formatting resources
- 4.2 Participants will be able to format the following:
 - Braille and print page numbers
 - Directions
 - Numbered problems
 - Tables

Lesson 5: Supporting the Student in Learning Nemeth Code and Math Concepts

- 5.1 Participants will be able to describe the importance of pre-teaching students Nemeth symbols and new formats
- 5.2 Participants will be able to locate and use resources for teaching math concepts for students in grades 2-5
- 5.3 Participants will be able to identify and use hands-on materials and manipulatives to support student learning in Grades 2-5

Lesson 6: Building a Strong Educational Team

- 6.1 Participants will be able to describe the role of professionals who are supporting students in grades 2-5 taking math classes
- 6.2 Participants will be able to describe the responsibilities of the teacher responsible for math education content
- 6.3 Participants will be able to identify ways that students can complete their assignments for those who do not read braille
- 6.4 Participants will be able to explain how professionals can encourage students and sighted peers working together

Lesson 7: The 3Cs of a Digital Workflow: Capture! Convert! Cloud! With Dr. Yue-Ting Siu

- 7.1 Participants will be able to define what a digital workflow means for blind and low vision students
- 7.2 Participants will be able to capture print media in a digital format
- 7.3 Participants will be able to convert digital media into accessible formats
- 7.4 Participants will be able to share instructional materials in real time via the cloud