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 ($)

2.2 Participants will be able to read and write linear math problems using Nemeth Code symbols.

2.3 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 paranthesis, bracket, and brace.

3.2 Participants will be able to read and write the symbols for superscript (exponent), baseline indicator, and degree sign (°)

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