Essentials of Math Instruction

NDDPI

ND COUNTS

SERIES OVERVIEW

This three-day professional learning series engages math educators (grades 4-8) in studying the progression of learning across middle grades and the key competencies of **problem solving, connections, and reasoning and proof**. Each session engages participants in **experiential-based learning** with activities from high-quality instructional materials through the viewpoint of students for reflection from an instructional and pedagogical lens.

SCOPE & SEQUENCE

DAY 1

Problem Solving through Explicit Math Instruction: Leveraging High Quality Instructional Materials

- **Align** on the qualities and characteristics of HQIM and the rationale for using them in our math classrooms,
- **Define problem solving** as a key math competency & explore how instructional approaches support student success,
- **Plan to implement HQIM** in daily mathematics instruction, and
- **Study the progression of learning** across middle grades with a focus on Numbers and Operations and Data, Probability, and Statistics.

DAY 2

Data-Driven Decision Making: Leveraging Formative Assessment

- **Examine the role of formative data** in driving instructional decisions,
- **Identify** opportunities to gather formative data (ex.discourse, written work, NAVVY),
- **Analyze student thinking** from HQIM lessons within the learning progression, and
- **Apply formative data** to adjust instruction and plan targeted support that maintains grade-level expectations.

DAY 3

Building Connections through Differentiated Instruction: Creating Access to Grade Level Learning

- **Define differentiated instruction** and identify tools for creating access to grade-level learning,
- **Examine** how HQIM supports access,
- **Apply knowledge** of the Geometry and Measurement progression to plan a differentiated support, and
- **Reflect on your learning** across the series and identify next steps for your practice.

CREA Central Regional Education Association

ONE LEARNING EXPERIENCE, MULTIPLE LOCATIONS!

Location: Bismarck & Minot
Time: 8:30am-3:30pm

Click on desired cohort for detailed schedule and to register today!

Grades 4-6	Grades 6-8
FALL 2026 COHORT	FALL 2026 COHORT
WINTER 2027 COHORT	WINTER 2027 COHORT
SPRING 2027 COHORT (Grades 4-8 combined)	

Legislative Intent: The intention of the North Dakota Century Code (NDCC) section 15.1-21-12.2 regarding mathematics curriculum and professional development is to support the improvement of mathematics instruction for students in North Dakota.

QUESTIONS? pd.crea@k12.nd.us