



PROFESSIONAL DEVELOPMENT

Essentials of Math Instruction

Grades 4–8

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ND COUNTS

PROFESSIONAL DEVELOPMENT OVERVIEW

[Fall Cohort](#)

[Spring Cohort](#)

PROFESSIONAL DEVELOPMENT OVERVIEW

This three-day training sequence engages math teachers (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 participants completing activities from high-quality instructional materials through the viewpoint of students and reflecting from an instructional and pedagogical lens.

PARTICIPANT OUTCOMES



Content Knowledge

Richer content knowledge on the progression of learning in foundational focus topics across middle grades.



Research-Based Practices

Experience with research-based best practices in mathematics, including explicit instruction and data-driven decision making.



Access Strategies

Strategies to support students in accessing grade-level content and addressing unfinished learning through differentiation.

ND COUNTS LEGISLATION ALIGNMENT

Legislative Intent: The intention of the North Dakota Century Code (NDCC) section 15.1-21-2.2 regarding mathematics curriculum and professional development is to support the improvement of mathematics instruction for students in North Dakota.

CONTENT & STRUCTURE

Each day includes six hours of content, one hour for lunch, and two 15-minute breaks.

DAY 1

Problem Solving through Explicit Math Instruction: Leveraging High Quality Instructional Materials
Foundational Skills: Numbers & Operations

DAY 2

Data-Driven Decision Making: Leveraging Formative Assessment
Foundational Skills: Algebraic Reasoning and Data, Probability, and Statistics

DAY 3

Building Connections through Differentiated Instruction: Creating Access to Grade Level Learning
Foundational Skills: Geometry & Measurement

PROFESSIONAL DEVELOPMENT LOGISTICS

This professional development series was designed and developed by NDDPI, NDREA, and district personnel in partnership with SchoolKit.

Who Should Attend: Teachers of mathematics grades 4-8, building principals

Dates: **Fall Cohort** is Aug. 10, Sept. 17, and Oct. 22.

Spring Cohort is Jan. 18, Feb. 19, and Mar. 18.

Time: 8:30am to 4:00pm

Location: Lake Region State College, 1801 College Dr. N., Devils Lake

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Facilitators: Jaci Lenz, Katie Oster, and Erin Lacina

