

Elementary Mathematics Academy (Grades K-6)

This Professional Development series will:

- Overview more than 100 new lessons, games, resources and instructional activities to provide motivating hands-on instruction for elementary students
- Provide activities that are mapped to NCTM mathematics standards
- Provide activities which are aligned to NCTM Focal Points and Nebraska State Mathematics Standards
- Provide differentiated activities and instruction for all grades K-6
- Provide interdisciplinary lessons that use mathematical concepts within the context of problem solving, representation, reasoning, communication and connections
- Provide lessons and activities connecting technology to mathematics
- Provide effective classroom strategies blending mathematics and other subject areas

Elementary Mathematics Academy Schedule All sessions meet from 9 am – 3 pm

Participants are expected to attend all sessions for their region.

Date/ Site	Kearney	Sidney	Norfolk	Omaha
Days 1 & 2	June 30 July 1	June 23 June 24	July 7 July 8	July 21 July 22
Day 3	Sept. 27	Sept. 26	Sept. 23	Sept. 6
Day 4	Oct. 12	Oct. 11	Oct. 25	Oct. 21
Day 5	Nov. 11	Nov. 10	Nov. 15	Nov. 30

Kearney: ESU 10, 76 Plaza Boulevard

Sidney: Western NE Community College, 371 College Drive

Norfolk: Lifelong Learning Center, 801 E Benjamin Avenue

Omaha: ESU 3, 6949 S. 110th Street

2011-2012 NMPDS Supporting Teaching and Learning in Mathematics

Institute Benefits for Teachers:

- NSDC Standards for quality Professional Development are met
- Mathematics teaching resources
- Daily participant stipend of \$140 per day before payroll tax deduction (Summer and weekends only)
- Substitute reimbursement of \$100 per day
- Lodging for those located at least 75 miles from the training site
- Mylearning account for 1 year (Middle/High School Project only)
- Graduate Credit available (3 graduate credit hours for Middle/High School Project only)
- Professional Learning Communities (PLC) of 4-6 members (Middle/High School Project only)

Who may apply?

- K – 12th grade teachers
 - Elementary: K-6
 - Middle/High School: 7-12 Math
- Special Education/Title I Teachers
- Priority points will be given to those from high needs districts; those assigned to SPED and Title I; and those whose students are struggling with achievement on NeSA Mathematics



NMPDS

**Funded through the Mathematics Science
Partnership Grants under the NCLB Act of 2001**

Middle/High School Project (Grades 7-12)

This Professional Development series will:

- Provide activities, instructional strategies and resources for teachers to assist **ALL** students in:
 - Meeting the Nebraska State Mathematics Standards
 - Improving their performance on the NeSA-M
 - Making connections between algebra, geometry and data analysis
 - Applying reasoning skills and problem solving strategies

Middle/High School Project Schedule All sessions meet from 9 am – 3 pm

Participants are expected to attend all sessions for their region. The NATM Conference is optional, yet strongly encouraged.

Date/Site	North Platte	Kearney	Norfolk	Lincoln
September Session I	Sun., Sept. 18th ESU 10, Kearney, NE Registration at 12 PM Mon., Sept. 19th NATM Annual Conference Holiday Inn Conference Center, Kearney Details TBA			
October Session II	Mon. Oct. 10	Tues. Oct. 11	Mon. Oct. 24	Tues. Oct. 25
November Session III	Mon. Nov. 21	Tues. Nov. 22	Mon. Nov. 28	Tues. Nov. 29
February Session IV	Mon. Feb. 6	Tues. Feb. 7	Mon. Feb. 13	Tues. Feb. 14
March Session V	Mon. Mar. 5	Tues. Mar. 6	Mon. Mar. 12	Tues. Mar. 13

North Platte: ESU 16, 1221 West 17th Street

Kearney: ESU 10, 76 Plaza Boulevard

Norfolk: Lifelong Learning Center, 801 E Benjamin Avenue

Lincoln: Concordia Univ.-Lincoln, 570 Fallbrook Boulevard

Since 2006, **The Nebraska Mathematics Professional Development Series (NMPDS)** has impacted over 1600 teachers in 207 public school districts, 329 public school buildings and 21 private schools. The series includes a Grade K-6 program and a Middle/High School program.

NMPDS is supported by a Nebraska Mathematics & Science Partnership grant, funded by the NCLB Act of 2001. The Middle/High School Project is in its sixth year with the Grade K-6 Project in its fourth year.

These offerings are projects of the Nebraska Mathematics Cadre, comprised of representation from each Nebraska ESU and the Nebraska Department of Education. These projects are dedicated to enhancing the statewide need to build the required skills and knowledge teachers need in order to fully teach complex topics in algebra, geometry and data analysis.

Middle/High School Project:

2006-07 Year 1 – The Year of Algebra

2007-08 Year 2 – The Year of Geometry

2008-09 Year 3 – Data Analysis: Collecting, Analyzing and Representing Data

2009-10 Year 4 – Mathematical Connection: Within, Across and Outside the Curriculum

2010-11 Year 5 – Algebraic Thinking: From Computation to Algebra

2011-12 Year 6 – Supporting Teaching and Learning in Mathematics

Grade K-6 Project:

2008-09 Year 1 – Elementary Mathematics Academy

2009-10 Year 2 – Elementary Mathematics Academy

2010-11 Year 3 – Elementary Mathematics Academy

2011-12 Year 4 – Elementary Mathematics Academy

Using research-based mathematics materials, each series is instructed by highly qualified, seasoned Nebraska-based instructors and other nationally known educational experts.

The series sessions are implemented through direct instruction, exploratory experiences and interaction between the participants. The Middle/High School Project utilizes Teacher Leaders in Mathematics (TLM) as facilitators for Professional Learning Communities (PLC) of participants of four to six members.

In addition, all Middle/High School teacher participants use MyeLearning Angel wetware to communicate with other participants, allowing all to share their learnings and ideas digitally.

The Nebraska Association of Teachers of Mathematics (NATM), the state-level organization of The National Council of Teachers of Mathematics (NCTM), and higher education institutions are also partners of the series.

What do past participants say about the Project?

- *"It helped keep myself in touch with math concepts and strategies. Gave me ideas for planning this next school year."*
- *"Sharing ideas with other math teachers."*
- *"Every time I come out of the workshop, I have new ideas to use. I feel renewed in interest to do the activities."*
- *"It was worth the time. It's always informative to learn new techniques, strategies and about teacher help sites. Also, it's helpful to keep up to date with standards updates."*

What do past participants say about the Academy?

- *"A great opportunity to collaborate with other teachers. New ways to think about the same things we do year after year. Great resources to use on your own."*
- *"Exciting, useful, best around, you will use what you learn."*
- *"Activities made the math concepts more interesting and brings it alive for the students."*
- *"The instructors made the math so visible and hands on. You could see the math."*



NEBRASKA MATHEMATICS PROFESSIONAL DEVELOPMENT SERIES

www.education.ne.gov/msp/math.html

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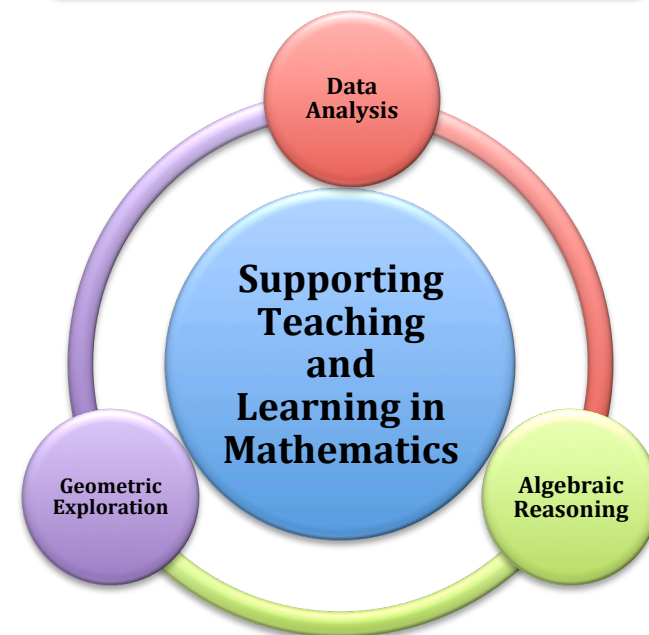
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Nebraska Mathematics Professional Development Series 2011 - 2012

**Elementary Math Academy (K-6)
Middle/High School Program (7-12)**



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