

What is the purpose of NMPDS?

NMPDS addresses the statewide need to build required skills and knowledge teachers need in order to fully teach complex topics in number sense, algebra, geometry, and data analysis.

What does a typical session look like?

Classroom math teachers from across the state are equitably identified to attend trainings held during the summer and school year in multiple sites across the state in order to engage in professional development instructional strategies workshops. Using research-based materials, each series is instructed by highly qualified, seasoned Nebraska-based 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 of Mathematics (TLM) as facilitators for Professional Learning Communities (PLC) of participants of 4-6 members.

Who will be impacted by this Professional Development experience?

Currently, it is estimated the NMPDS projects have directly impacted 1650 teachers. Current numbers indicate that teachers from 207 public school districts, 329 public school buildings, and 21 private schools have been involved in NMPDS over the last **SIX** years. Tens of thousands of students have been impacted because of this experience. This impact will also be extended through the PLC concept as teacher networks develop with additional math teachers in their own schools and districts.

Where can I find more information?

More information can be found from the following:

- NDE (www.education.ne.gov/msp/math.html)
- NDE Math (www.educationne.gov/math/index.html)
- ESU 8 (www.esu8.org) *Elementary Math* icon
- Facebook (become a NMPDS friend)
- Contact the NMPDS Project Director or Coordinator
- Contact any Nebraska Math Cadre member (list found on NDE (above address))

How can I apply?

An application can be found on the NDE, NDE Math and ESU 8 websites. An application can also be found in the brochure from any Nebraska Math Cadre member.

Deadlines:

Elementary Math Academy – June 1, 2012

Middle/High School Project – September 1, 2012

What do past participants say about the Academy?

- *"This workshop gives you visual and hands on techniques to teach math to make math enjoyable. It will get kids thinking without them knowing it."*
- *"Instructors made math exciting, fun and practical – explained everything."*
- *"There were a lot of useful instructional strategies that will be easily implemented in my classroom."*
- *"I had many 'ah-ha' moments from the activities."*
- *"The ideas are easily adaptable to different grade levels."*
- *"The instructors have a great sense of humor, have energy, give the WHY explanations and stress being creative in our teaching."*

What do past participants say about the Project?

- *"I finally have a chance to interact and network with other math teachers."*
- *"I love the ideas I can take home and use as soon as I get back."*
- *"I enjoy the many ways to implement with a variety of grade levels."*
- *"Working with my PLC group helped me to discover new ways to teach topics I have discovered to be tricky."*
- *"I look forward to the up-to-date information on State Standards and the Common Core."*
- *"Just when I think I've learned it all, I learn even more!"*
- *"The trainers are very engaging! They keep us moving!"*



NMPDS Contact Information

<http://www.education.ne.gov/msp/math.html>

Carol Jessen (cjessen@esu8.org)
NMPDS Project Director

JaLena Slack (jslack@esu8.org)
NMPDS Project Coordinator

Educational Service Unit No. 8
302 Main Street, PO Box 89
Neligh, NE 68756

Phone: 402-887-5041 Fax: 402-887-4604

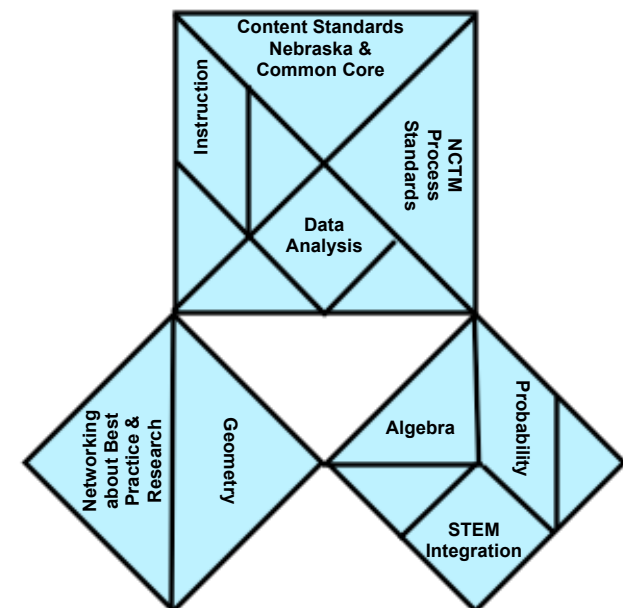
Funded through the Mathematics Science Partnership
Grants under the NCLB Act of 2001

Nebraska Mathematics Professional Development Series 2012-2013

Elementary
Math Academy
(K-6)

Middle/High
School Project
(7-12)

Math Connections for the 21st Century Learner



Elementary Math Academy (K-6)

This Professional Development series will:

- Demonstrate the integration of mathematics in STEM activities
- Overview more than 100 new lessons, games, resources and instructional activities to provide motivating hands-on instruction for elementary students
- Provide activities mapped to Nebraska and Common Core Math standards
- Integrate data analysis, probability and algebra into elementary mathematics instruction
- Use geometry as a way to illustrate a wide variety of mathematical topics
- Provide differentiated activities and instruction for all grades K-6
- Encourage student problem solving, representation, reasoning, communication and connections
- Provide lessons and activities connecting technology to mathematics
- Provide effective classroom strategies blending mathematics and other STEM 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	Ogallala	Norfolk	Omaha
Days 1 & 2	July 16 July 17	July 12 July 13	June 28 June 29	July 26 July 27
Day 3	Sept. 12	Sept. 11	Sept. 21	Sept. 25
Day 4	Oct. 16	Oct. 15	Oct. 12	Oct. 29
Day 5	Nov. 14	Nov. 13	Nov. 9	Nov. 27

Kearney: ESU 10, 76 Plaza Boulevard

Ogallala: ESU 16, 314 West 1st Street

Norfolk: Lifelong Learning Center, 801 E Benjamin Ave

Omaha: ESU 3, 6949 S. 110th Street

2012-2013 NMPDS Math Connections for the 21st Century Learner

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
- Myelearning account (Middle/High School Project only)
- Graduate Credit available (3 graduate credit hours for Middle/High School Project only)
- Professional Learning Communities 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 on application 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 Grant under the NCLB Act of 2001

Middle/High School Project (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 and improving performance on the NeSA-M assessment
 - Using technology to gain a deeper understanding of mathematical concepts.
 - Making connections between algebra, geometry, probability and data analysis
 - Building student ownership of learning through the utilization of technology such as Geogebra, spreadsheets, videos, and internet resources
 - Developing mathematical concepts within the context of problem solving, representation, reasoning, communication and connections
 - Taking advantage of opportunities available through STEM initiatives.
 - Meeting the high expectations of Common Core Standards

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

Participants are expected to attend all sessions for their region.

Date/ Site	North Platte	Kearney	Norfolk	Milford
Session 1	Mon., Sept. 24th NATM Conference, Cornhusker Hotel, Lincoln (Required)			
Session 2	Oct. 16	Oct. 17	Oct. 22	Oct. 23
Session 3	Nov. 5	Nov. 6	Nov. 12	Nov. 13
Session 4	Feb. 4	Feb. 5	Feb. 11	Feb. 12
Session 5	Mar. 4	Mar. 5	Mar. 11	Mar. 12

North Platte: ESU 16, 1221 West 17th Street

Kearney: ESU 10, 76 Plaza Boulevard

Norfolk: Lifelong Learning Center, 801 E Benjamin Ave

Milford: ESU 6, 210 5th Street