

## Secondary Mathematics Summer 2008

### What research says about Teaching for Understanding:

- "Instructional programs that emphasize conceptual development, with the goals of understanding, can facilitate significant mathematics learning without sacrificing skill proficiency." - Heibert, NCTM, 2003
- "Students who memorize facts or procedures without understanding often are not sure when and how to use what they know, and such learning is often quite fragile." - NCTM, 1999
- "Students who develop conceptual understanding early perform best on procedural knowledge later." - Grouws & Cebulla, 2000

For more information, or if you require an accommodation or other assistance in order to participate in this activity sponsored by Prairie Lakes AEA 8, please contact any team member.

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## Questions? Contact Your AEA Math Leadership Team Members

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## Secondary Mathematics Summer '08



**A professional  
development opportunity  
to support mathematics  
and special education  
teachers in grades 6-12,  
administrators, and  
AEA Building  
Representatives**

# Summer '08 Secondary Mathematics!

## Registration Form

### Where & When?

#### Time/Date/Location

9 a.m.-3:30 p.m

June 11-13

Laurens Marathon Schools, Laurens

### What's Happening?

Goal:

Participants will review best practices in mathematics, make connections to the Iowa Core Curriculum in mathematics, explore tools to determine what students know, and consider how student assessment data results can be used.

On June 11 four breakout sessions, differentiated for Elementary, Middle School, and High School, will be held. (It purposely overlaps with the Elementary Math Institute held June 12 and 13.)

The four topic areas for breakouts include:

- Tools of the Trade
- Process Standards
- Literature Connections
- Technology

### What will I be doing?

Participants will

- attend three days of training
- compare the big ideas of their course(s) to the Iowa Core Curriculum
- become familiar with selected Essential Characteristics and Skills of the Iowa Core Curriculum
- create a plan to implement assessments to determine student learning needs and how to respond to those needs
- complete reflection journals
- participate in problem solving tasks

### Iowa Teaching Standards:

3. Demonstrates competence in planning and preparing for instruction.
  - d. Selects strategies to engage all students in learning
4. Use strategies to deliver instruction that meets the multiple learning needs of students
  - b. Uses research-based instructional strategies that address the full range of cognitive levels
7. Engages in professional growth
  - a. Demonstrates habits and skills of continuous inquiry and learning

### Credit and Cost:

Registration \$10

+PLUS, if credit is desired:

- 1 License Renewal Credit - \$60
- 1 Morningside Graduate Credit - \$110
- 1 Drake Graduate Credit - \$135

If interested, send registration form and \$10 registration fee by **May 16, 2008.**

If you wish to take the class for credit, you will register on site and pay for credit the first day of class.

### **Secondary Mathematics Summer '08**

Submit registration by **May 16, 2008** by van mail or fax to:

Kathy Newcomb, Fax 515-574-5336  
1235 5<sup>th</sup> Ave. South [knewcomb@aea8.k12.ia.us](mailto:knewcomb@aea8.k12.ia.us)  
Fort Dodge, IA 50501

Name \_\_\_\_\_

School District/Building \_\_\_\_\_

Work Phone \_\_\_\_\_

Home or Cell Phone \_\_\_\_\_

Work Email \_\_\_\_\_

Home Email \_\_\_\_\_

Form of payment: \_\_\_\_\_

Check/P.O. # \_\_\_\_\_

Amount \$10.00 Registration Fee for class \_\_\_\_\_

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+Plus 1 License Renewal Credit \$60 or 1 Morningside Credit \$110 or 1 Drake Credit \$135  
(If Desired)