Core Knowledge®

National Conference 2008

Top-Priority Unit Topics ~ Middle School Mathematics

Units on the following topics will receive the highest priority as we select from among submissions for the "Share the Knowledge" sessions to be given during the 2008 Core Knowledge National Conference.

To read this list, look at topic headings below, then refer to the *Core Knowledge Sequence* for more specific content within that topic. Note: The items listed are identical to the lettering and numbering of the *Sequence*. *Gaps in lettering and numbering are intentional*.

In addition to the topics listed below, preference will be given to instructional units that incorporate ideas such as:
* instructional strategies that include technology
* integration across the content areas
* addressing the needs of a variety of learners, including: ESL, GT, Special Education, etc.

Finally, note that submitting a unit on these topics does not guarantee acceptance as we have a limited number of presentation spaces available. *However, high-quality, **completed units** will receive the highest priority among proposals*.

Grade 6
- I. Numbers and Number Sense
- II. Ratio, Percent, and Proportion
  - A. Ratio and Proportion
  - B. Percent
- III. Computation
  - A. Addition
  - B. Multiplication
  - C. Division
  - D. Solving Problems and Equations
- IV. Measurement
- VI. Probability and Statistics
- VII. Pre-Algebra

Grade 7
- I. Pre-Algebra
  - A. Properties of the Real Numbers
  - B. Linear Applications and Proportionality
  - C. Polynomial Arithmetic
  - D. Equivalent Equations and Inequalities
  - E. Integer Exponents
- II. Geometry
  - A. Three-Dimensional Objects
  - B. Angle Pairs
  - C. Triangles
  - D. Measurement
- III. Probability and Statistics

Grade 8
- I. Algebra
  - A. Properties of the Real Numbers
  - B. Relations, Functions, and Graphs (Two Variables)
  - C. Linear Equations and Functions (Two Variables)
  - D. Arithmetic of Rational Expression
  - E. Quadratic Equations and Functions
- II. Geometry
  - A. Analytic Geometry
  - B. Introduction to Trigonometry
  - C. Triangles and Proofs