

IKM-Manning Curriculum
Mathematics Standards / Benchmarks / Indicators
November 2007

Standards:

- The students will demonstrate understanding of number and operations
- The students will demonstrate understanding of algebra
- The students will demonstrate understanding of geometry and measurement
- The students will demonstrate understanding of data analysis and probability

Course Benchmarks:

- K.1.1 Understand numbers, ways of representing numbers, relationships among numbers, and number systems (H, L, C)
- K.2.1 Explore and identify patterns (H, L, C)
- K.3.1 Develop basic understanding of spatial relationships (ie. above, below, left, right, before, after) (H, L, C, T)
- K.3.2 Identify, draw, sort, and compare basic shapes
- K.3.3 Understand measurable attributes of objects and the units, systems, and processes of measurement
- K.4.1 Demonstrate the ability to collect, compare and record data (H, L, C, T)

Kindergarten

K.1 Numbers and Operations

K.1.1 Understand numbers, ways of representing numbers, relationships among numbers, and number systems (H, L, C)

- K.1.1.A Identify numbers in random order to 20
- K.1.1.B Construct sets using objects to 20
- K.1.1.C Write numbers in order and random order to 20
- K.1.1.E Compare two or more groups and identify which group is equal to, more than, or less than and sequencing
- K.1.1.D Recognize ordinal numbers
- K.1.1.E Solve simple addition and subtraction problems with manipulatives
- K.1.1.F Apply and adapt a variety of appropriate strategies to solve problems

K.2 Algebra

K.2.1 Explore and identify patterns (H, L, C)

- K.2.1.A Identify, describe and extend patterns involving shape, size or color

K.3 Geometry and Measurement

K.3.1 Develop basic understanding of spatial relationships (ie. above, below, left, right, before, after) (H, L, C, T)

K.3.2 Identify, draw, sort, and compare basic shapes

- K.3.2.A Name, describe, and identify uses of common geometric shapes

K.3.3 Understand measurable attributes of objects and the units, systems, and processes of measurement

- K.3.3.A Identify, sort and classify objects by attributes
- K.3.3.B Compare length and weight of objects using nonstandard units to measure (longer, shorter, heavier, lighter)
- K.3.3.C Recognize and identify value of penny
- K.3.3.D Develop a basic understanding of time using the calendar day/night, today/tomorrow/yesterday, morning/afternoon/night, sequencing days of the week
- K.3.3.E Tell time on the hour using a clock

K.4 Data Analysis and Probability

K.4.1 Demonstrate the ability to collect, compare and record data (H, L, C, T)

- K.4.1.A Read, create, and interpret graphs

*Coding for Infusion Topics covered in curriculum:

Higher Order Thinking Skills (H), Vocational/Career Education (V), Global Education (G), Multi-Cultural/Gender Fair (MCGF), Learning Skills (L), Communication Skills (C), Technology (T)