MATHEMATICS
THIRD GRADE

1. Uses a variety of strategies in the problem-solving process

- Constructs physical representations for complex problems **(Grade 3)**
  Use manipulative to solve problems
  Draws picture to solve problem

- Distinguishes between pertinent and irrelevant information when solving problems **(Grade 3)**
  Identify important information needed to solve the problem

2. Understands and applies basic and advanced properties of the concepts of numbers

_____• Uses concrete, pictorial, and symbolic representations to identify, order, and rename numbers **(Grade 3)**
  Use of base ten blocks
  Uses ordinal numbers
  Uses expanded form

- Understands the basic difference between odd and even numbers **(Grade 3)**
  Tells the difference between odd and even numbers

- Understands the basic meaning of place value **(Grade 3)**
  Knows place value to ten thousands

3. Uses basic and advanced procedures while performing the process of computation

_____• Adds, subtracts, multiplies, and divides whole numbers **(Grade 3)**
  Recall basic facts
  Computation skills
  Mentally adds and subtracts basic combinations of whole numbers

- Rounds whole numbers **(Grade 3)**
  Rounds whole numbers to hundreds and tens

- Understands that choices must be made when determining which operations to use **(Grade 3)**
  Knows key words to solve operations

- Carries out arithmetic computations involving dollars and cents **(Grade 3)**
  Counting money
  Determining change to $1.00
  Adding and subtracting $ amounts

4. Understands and applies basic and advanced properties of the concept

of measurement

- Selects and uses appropriate tools for given measurement situations **(Grade 3)**
  Uses appropriate measuring tools for length
  Uses appropriate measuring tools for volume
  Uses appropriate measuring tools for weight

- Selects and uses appropriate units of measurement **(Grade 3)**
  Selects appropriate units for length
  Selects appropriate units for volume
  Selects appropriate units for weight

5. Understands and applies basic and advanced properties of the concept of geometry

_____ • Knows basic geometric language for describing and naming shapes (e.g., trapezoid, parallelogram, cube, sphere) **(Grade 3)**
  Knows cube, sphere, cylinder, pyramid, rectangular prism, cone

- Understands that shapes can be congruent or similar **(Grade 3)**
  Identifies congruent shapes
  Identifies similar shapes

6. Understands and applies basic and advanced concepts of probability, statistics, and data analysis

- Understands that data represents specific pieces of information about real-world objects or activities **(Grade 3)**
  Reads a graph and can what it means

- Collects and organizes simple data sets to answer questions

- Constructs and interrupts simple bar graphs,pictographs, and line graphs **(Grade 3)**
  Uses information to complete graphs

- Predicts the most likely outcomes **(Grade 3)**
  Understands that the word "chance" refers to the likelihood of an event

7. Understands and applies basic and advanced properties of function and algebra

_____ • Recognizes a wide variety of patterns and the rules that explain them **(Grade 3)**

Recognizes basic linear patterns
Recognizes simple repeating patterns
Recognizes growing patterns

- Understands the basic concept of an equality relationship **(Grade 3)**

Knows an equation is a number sentence that shows two quantities that are equal

- Solves simple open sentences involving operations on basic facts

Solves problems with missing addend (e.g. _ + 3 =8)