

# FLORIDA MATHEMATICS STANDARDS

## K-8 GRADE-LEVEL STANDARDS

### Big Ideas

Big Ideas are standards that are aligned with the *Curriculum Focal Points* released by the National Council of Teachers of Mathematics (NCTM). They include standards which should be the primary focus of mathematics instruction for each grade level, K-8. Establishing proficiency with these standards at each successive grade level will prepare a strong foundation for learning mathematics in subsequent grades.

There are three Big Ideas for each grade. The Big Ideas do not address the same topics for each grade, recognizing that at each level there are certain skills which must be honed to prepare students for more rigorous instruction as they move to the next grade. The order of the Big Idea standards does not determine the order of instruction nor does it indicate that one idea requires greater instructional emphasis. The Big Ideas are assigned numbers 1, 2, or 3 without regard to the content in each of them.

### Supporting Ideas

Supporting ideas are standards which are fundamental to sound mathematics instruction. Also aligned with the *Curriculum Focal Points*, Supporting Ideas are not less important than the Big Ideas but are key components to a structurally sound mathematics education.

Supporting Ideas are standards that serve one or more of the following purposes:

- 1) Establishing connections to and between the strands of mathematics as defined by NCTM (Probability has been extracted from Data Analysis and stands alone.);
- 2) Preparing students for future mathematics teaching and learning by focusing on conceptual understanding of concepts; and
- 3) Addressing gaps in instruction that may appear insignificant but are important to the understanding, fluency, and application of mathematics ideas to problem solving.

#### Body of Knowledge Key:

A ~ Algebra

C ~ Calculus

D ~ Discrete Mathematics

F ~ Financial Literacy

G ~ Geometry

P ~ Probability

S ~ Statistics

T ~ Trigonometry

## Benchmark Coding Scheme

<b>MA.</b>	<b>5.</b>	<b>A.</b>	<b>1.</b>	<b>1</b>
Subject	Grade Level	Body of Knowledge	Big Idea / Supporting Idea	Benchmark

Body of Knowledge Key:

- A ~ Algebra
- C ~ Calculus
- D ~ Discrete Mathematics
- F ~ Financial Literacy
- G ~ Geometry
- P ~ Probability
- S ~ Statistics
- T ~ Trigonometry

## Access Points Coding Scheme

<b>MA.</b>	<b>5.</b>	<b>A.</b>	<b>1.</b>	<b>In.a</b>
Subject	Grade Level	Body of Knowledge	Big Idea / Supporting Idea	Access Point

Access Points Key:

- In ~ Independent
- Su ~ Supported
- Pa ~ Participatory

# FLORIDA SCIENCE STANDARDS

## K-8 GRADE-LEVEL STANDARDS

### **Big Ideas**

The revised science standards include big ideas that flow throughout all grade levels and build in rigor as students move to higher grade levels. The eighteen big ideas used throughout this document are organized as follows:

#### Body of Knowledge: The Nature of Science

Big Idea 1: The Practice of Science

Big Idea 2: The Characteristics of Scientific Knowledge

Big Idea 3: The Role of Theories, Laws, Hypotheses, and Models

Big Idea 4: Science and Society

#### Body of Knowledge: Earth and Space Science

Big Idea 5: Earth in Space in Time

Big Idea 6: Earth Structures

Big Idea 7: Earth Systems and Patterns

#### Body of Knowledge: Physical Science

Big Idea 8: Properties of Matter

Big Idea 9: Changes in Matter

Big Idea 10: Forms of Energy

Big Idea 11: Energy Transfer and Transformations

Big Idea 12: Motion of Objects

Big Idea 13: Forces and Changes in Motion

#### Body of Knowledge: Life Science

Big Idea 14: Organization and Development of Living Organisms

Big Idea 15: Diversity and Evolution of Living Organisms

Big Idea 16: Heredity and Reproduction

Big Idea 17: Interdependence

Big Idea 18: Matter and Energy Transformations

## Benchmark Coding Scheme

<b>SC.</b>	<b>5.</b>	<b>N.</b>	<b>1.</b>	<b>1</b>
Subject	Grade Level	Body of Knowledge	Big Idea	Benchmark

Body of Knowledge Key:

N ~ Nature of Science

E ~ Earth and Space Science

P ~ Physical Science

L ~ Life Science

## Access Points Coding Scheme

<b>SC.</b>	<b>5.</b>	<b>P.</b>	<b>1.</b>	<b>In.a</b>
Subject	Grade Level	Body of Knowledge	Big Idea	Access Point

Access Points Key:

In ~ Independent

Su ~ Supported

Pa ~ Participatory