Correlation of Life Skills Math to the NCTM Standards

**STANDARD 1 Number and Operations**

Instructional programs from prekindergarten through grade 12 should enable all students to:

- understand numbers, ways of representing numbers, relationships among numbers, and number systems;
- understand meanings of operations and how they relate to one another;
- compute fluently and make reasonable estimates.

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Whole numbers, relationships among numbers, and number systems can be found in application activities throughout the textbook.


*Computation with Calculator Practice:* pages 13, 27, 44–45, 65–66, 81, 97, 113, 122, 143, 147, 154, 185, 204, 221, 225, 239, 255, 285, 297; Paper/pencil computation can be found throughout the textbook.


**STANDARD 2 Algebra**

Instructional programs from prekindergarten through grade 12 should enable all students to:

- understand patterns, relations, and functions;
- represent and analyze mathematical situations and structures using algebraic symbols;
- use mathematical models to represent and understand quantitative relationships;
- analyze change in various contexts.

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**STANDARD 3 Geometry**

Instructional programs from prekindergarten through grade 12 should enable all students to:

- analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships;
- specify locations and describe spatial relationships using coordinate geometry and other representational systems;
- apply transformations and use symmetry to analyze mathematical situations;
- use visualization, spatial reasoning, and geometric modeling to solve problems.

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**STANDARD 4 Measurement**

Instructional programs from prekindergarten through grade 12 should enable all students to:

- understand measurable attributes of objects and the units, systems, and processes of measurement;
- apply appropriate techniques, tools, and formulas to determine measurements.

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Technology Connection: pages 21, 78, 98, 112, 283.
STANDARD 5 Data Analysis and Probability

Instructional programs from prekindergarten through grade 12 should enable all students to:
◆ formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them;
◆ select and use appropriate statistical methods to analyze data;
◆ develop and evaluate inferences and predictions that are based on data;
◆ understand and apply basic concepts of probability.

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STANDARD 6 Problem Solving

Instructional programs from prekindergarten through grade 12 should enable all students to:
◆ build new mathematical knowledge through problem solving;
◆ solve problems that arise in mathematics and in other contexts;
◆ apply and adapt a variety of appropriate strategies to solve problems;
◆ monitor and reflect on the process of mathematical problem solving.

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STANDARD 7 Reasoning and Proof

Instructional programs from prekindergarten through grade 12 should enable all students to:
◆ recognize reasoning and proof as fundamental aspects of mathematics;
◆ make and investigate mathematical conjectures;
◆ develop and evaluate mathematical arguments and proofs;
◆ select and use various types of reasoning and methods of proof.

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Reasoning skills/processes, conjectures, and argumentation are applied throughout the textbook in Exercises at the end of each lesson, in Problem-Solving and Application Exercises listed under the previous standard and in Chapter Tests.

STANDARD 8 Communication

Instructional programs from prekindergarten through grade 12 should enable all students to:
◆ organize and consolidate their mathematical thinking through communication;
◆ communicate their mathematical thinking coherently and clearly to peers, teachers, and others;
◆ analyze and evaluate the mathematical thinking and strategies of others;
◆ use the language of mathematics to express mathematical ideas precisely.

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Definitions of topic-relevant mathematical terms are included on the first page of each lesson.
**STANDARD 9 Connections**

Instructional programs from prekindergarten through grade 12 should enable all students to:
◆ recognize and use connections among mathematical ideas;
◆ understand how mathematical ideas interconnect and build on one another to produce a coherent whole;
◆ recognize and apply mathematics in contexts outside of mathematics.

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Relationships between basic math skills principles and whole numbers, fractions, decimals, percents, geometry, measurement, graphing and algebra are explored throughout the textbook and underlying principles are presented as an integrated whole.


Mathematical connections to careers and other subject areas are also explored in the Teacher’s Edition.

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**STANDARD 10 Representation**

Instructional programs from prekindergarten through grade 12 should enable all students to:
◆ create and use representations to organize, record, and communicate mathematical ideas;
◆ select, apply, and translate among mathematical representations to solve problems;
◆ use representations to model and interpret physical, social, and mathematical phenomena.

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Technology Connection: pages 10, 21, 43, 66, 78, 98, 112, 126, 140, 161, 177, 206, 220, 239, 249, 283, 304.