



Second Grade Mathematics Program

The Harcourt Mathematics program supports the goals of the mathematics Framework for California Public Schools. The standards are specific to each grade level and organized according to the following five strands of mathematics:

- **Number Sense**-developing number concepts, computation, numeration (systems of writing numbers), and estimation
- **Algebra and Functions**-solving mathematical equations and inequalities
- **Measurement and Geometry**-studying space and figures in space; using measurement tools
- **Statistics, Data Analysis, and Probability**-collecting data and displaying it in various ways, calculating simple averages, and performing probability experiments
- **Mathematical Reasoning**-explaining concepts, solving problems and puzzles, understanding algorithms and formulas, and justifying results in all areas of mathematics

This series provides a balanced mathematics program. It focuses on conceptual understanding, problem solving and reasoning, and computational and procedural skills.

A systematic method of Standards-based instruction is provided in every lesson. The lessons are set up in four steps:

1. **Introduce** - The topic is introduced by assessing prior knowledge, reviewing prerequisite skills, setting a purpose for learning, and introducing vocabulary.
2. **Teach** - In this step, concrete experiences promote reasoning and provide conceptual development. Problem solving strategies and computational procedures are taught in step-by-step direct instruction.
3. **Practice** - Daily practice is essential for conceptual development, computational proficiency, and development of reasoning and problem solving strategies.

4. **Assess** – This is built into every lesson to help students summarize their learning and check their progress. Plus, it helps teachers bring closure to the lesson, make critical decisions about future instruction, and provide appropriate interventions for individual students.

The second grade book has 6 units. They are:

1. Addition and Subtraction Strategies and Facts, Place Value, and Graph
2. Money and Time
3. 2-Digit Addition and Subtraction
4. Geometry and Measurement
5. Number Sense and Fractions
6. 3-Digit Addition and Subtraction, Multiplication and Division

For “At Home” Use:

- Each unit is divided into chapters. Every chapter begins with a Home/School Connection letter to parents that includes the math vocabulary, a related activity to do, and books to share.
- Each page of the book states the California Standard being taught and lists a Home Activity. Parents are encouraged to use these activities and words to reinforce the concepts being taught at school.
- Parents can use **The Harcourt School Learning Site** on the Internet. Just type:

<http://www.harcourtschool.com/index.html>

click on Math, then, click on the Math Books. Finally, click on the grade level to find games and activities that go with each chapter.

- The Mighty Math CD-ROM Series is used throughout the year to supplement this mathematics program. Mighty Math includes Carnival Countdown and Zoo Zillions. These CD's can be purchased and used at home for reinforcement of mathematics concepts.