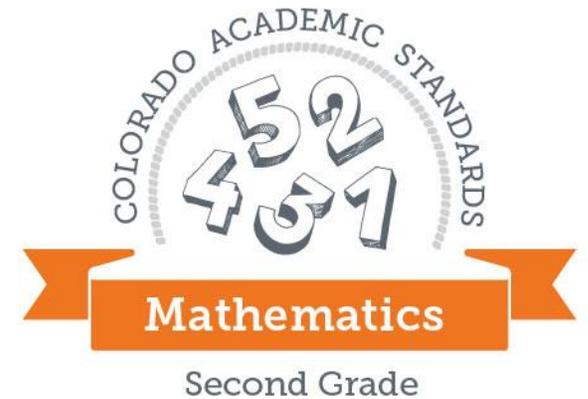


# A Guide to the Colorado Academic Standards



## Working Together

To support families and teachers in realizing the goals of the Colorado Academic Standards, this guide provides an overview of the learning expectations for Second Grade Mathematics. This guide offers some learning experiences students may engage in during this school year, experiences that may also be supported at home.

## Why Standards?

Created by Coloradans for Colorado students, the Colorado Academic Standards provide a grade-by-grade road map to help ensure students are successful in college, careers, and life. The standards aim to improve what students learn and how they learn in ten content areas – emphasizing critical-thinking, creativity, problem solving, collaboration, and communication as important life skills in the 21st century.

## Mathematics for Elementary Schools (k-5)

The mathematics standards in the elementary years focus on developing students' understanding of number and those concepts from geometry that strengthen students' ability to visualize number. In each grade students are asked to make sense of problems, explain their thinking, and show their world using mathematics.

## Where can I learn more?

- Contact your school district regarding local decisions related to standards, curriculum, resources, and instruction.
- Colorado Academic Standards Booklets: <http://www.cde.state.co.us/standardsandinstruction/GradeLevelBooks.asp>
- Mary Pittman, Mathematics Content Specialist at 303-854-4560, [Pittman\\_m@cde.state.co.us](mailto:Pittman_m@cde.state.co.us)



**COLORADO**  
Department of Education

**Colorado**  
**PTA**  
everychild. onevoice.

At the end of  
Second Grade,  
students can...



## Mathematics Learning Expectations for Second Grade

### Number

Fluently (consistently) add and subtract within 20; use an understanding of place value to add and subtract within 100.

### Data

Read and create pictographs and bar graphs.

### Geometry

Relate addition and subtraction to length, time and money; build, draw, and analyze 2 dimensional shapes (squares and triangles) and 3 dimensional shapes (cubes and pyramids).

## Throughout the Second Grade, you may find students...

- Mentally adding and subtracting within 20.
- Skip counting by 5s (5, 10, 15), 10s (10, 20, 30), and 100s (100, 200, 300) starting at different numbers.
- Solving two-digit addition and subtraction problems using a variety of strategies.
- Frequently using clocks, coins, rulers, number lines and bar graphs to solve challenging addition and subtraction word problems and simple multiplication problems.
- Exploring the attributes (features) of shapes and ways to break shapes into halves, thirds and fourths.

