



parent ROADMAP

SUPPORTING YOUR CHILD IN GRADE TWO
MATHEMATICS





A Message from the Santa Ana Unified School District Superintendent

Dear Parents,

In this ever-changing world, our students must be equipped with the skills and knowledge to compete in a global society. The creation of the Common Core State Standards was a collaborative effort by State Governors and State Superintendents across the nation to create rigorous and consistent educational standards. Thus far, the Standards have been adopted by 46 states so that every student, whether in California, New York, or Colorado, will experience the same level of educational standards regardless of where they reside.

The Common Core State Standards will assist us in providing a world-class education that is preparing students to be college and career-ready as part of the District's Seven Building Blocks to Success. Santa Ana Unified School District already has a strong foundation of academic success, so the implementation of the Common Core State Standards will simply build upon that success. You will notice incremental changes in the instruction of the District as we move forward with implementing these new standards. While your child will continue to develop his or her skills in a subject, there will be a greater focus on applying them in real-world applications working with peers. We believe that together, we can collectively work to support your child to be a successful learner.

This booklet is being provided to you to demonstrate what your child will be learning in the classroom and how you can be an active participant in helping your student master skills at each grade level. I encourage you to read this booklet carefully so that you can discover a variety of ways to best support your child's success. As always, we invite you to be engaged. If you have any questions or concerns, please feel free to contact your child's principal or teacher.

Best regards,

Thelma Meléndez de Santa Ana, Ph.D.
Superintendent

What your child will be learning in grade two mathematics



In grade two, students will extend their understanding of place value to the hundreds place. They will use this place value understanding to solve word problems, including those involving length and other units of measure. Students will continue to work on their addition and subtraction skills, quickly and accurately adding and subtracting numbers up through 20 and also working with numbers up through 100. They will also build a foundation for understanding fractions by working with shapes and geometry. Activities in these areas will include:

- Quickly and accurately adding numbers together that total up to 20 or less or subtracting from numbers up through 20
- Solving one- or two-step word problems by adding or subtracting numbers up through 100
- Understanding what the different digits mean in a three-digit number
- Adding and subtracting three digit numbers
- Measuring lengths of objects in standard units such as inches and centimeters
- Solving addition and subtraction word problems involving length
- Solving problems involving money
- Breaking up a rectangle into same-size squares
- Dividing circles and rectangles into halves, thirds, or fourths
- Solving addition, subtraction, and comparison word problems using information presented in a bar graph
- Writing equations to represent addition of equal numbers



An equation is a mathematical statement that uses numbers and symbols, such as $3 + 3 = 6$.

Partnering with your child's teacher

Don't be afraid to reach out to your child's teacher—you are an important part of your child's education. Ask to see a sample of your child's work or bring a sample with you. Ask the teacher questions like:

- Is my child at the level where he/she should be at this point of the school year?
- Where is my child excelling?
- What do you think is giving my child the most trouble? How can I help my child improve in this area?
- What can I do to help my child with upcoming work?

Here are just a few examples of the skills and strategies students will develop as they solve word problems in grade two.

Grade One Mathematics

Solve word problems by adding or subtracting numbers up through 20

Grade Two Mathematics

Solve one- and two-step word problems by adding or subtracting numbers up through 100

Grade Three Mathematics

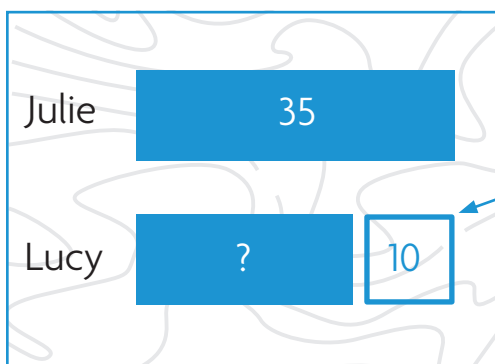
Solve two-step word problems by adding, subtracting, multiplying, or dividing numbers up through 100

Students in grade two will use diagrams such as this one to think through and solve one- and two-step word problems.

Julie has 35 books. Julie has 10 more books than Lucy. How many books does Lucy have? How many books do they have together?

Step 1: If Lucy has 10 less books than Julie, students first need to figure out what 10 less than 35 is.

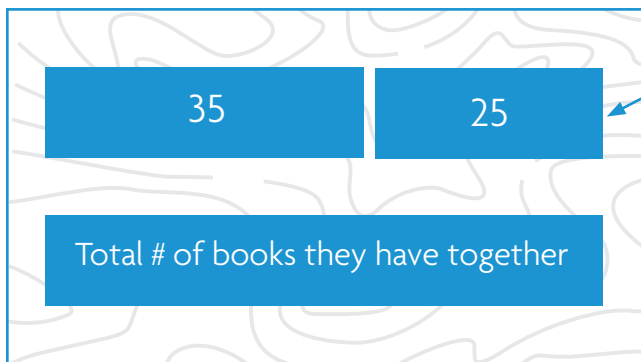
$$35 \text{ books} - 10 \text{ books} = 25 \text{ books}$$



$$\begin{aligned} 25 + 10 &= 35 \\ 35 - 10 &= 25 \end{aligned}$$

Step 2: Students then have to add the number of books Julie has to the number of books Lucy has.

$$35 \text{ books} + 25 \text{ books} = 60 \text{ books}$$



$$35 + 25 = 60$$

Here are just a few examples of how students will develop and use their understanding of place value in grade two.

Grade One Mathematics

- Understand that 10 can be thought of as a bundle of ten ones—called a “ten”
- Understand that the two digits of a two-digit number represent amounts of tens and ones (place value)
- Add and subtract numbers through 100 using what students have learned about place value

Grade Two Mathematics

- Understand that 100 can be thought of as a bundle of ten tens—called a “hundred”
- Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones (place value)
- Add and subtract numbers through 1000 using what students have learned about place value

Grade Three Mathematics

- Use place value understanding to round whole numbers to the nearest 10 or 100
- Quickly and accurately add and subtract numbers through 1000
- Use place value understanding to multiply and divide numbers up through 100
- Multiply one-digit whole numbers by multiples of 10 between 10 and 90. For example, 9×80 or 5×60

*Students learn that
 $250 = 2$ hundreds
and 5 tens, 25 tens,
or 250 ones.*

$$\begin{array}{|c|} \hline 250 \\ \hline \end{array} = \begin{array}{|c|} \hline 2 \\ \hline \end{array} + \begin{array}{|c|} \hline 5 \\ \hline \end{array} + \begin{array}{|c|} \hline 0 \\ \hline \end{array}$$

hundreds tens ones

*Students apply their
understanding that
 5 tens + 5 tens =
 10 tens, or 1 hundred,
that can then be added
to the hundreds place.*

$$\begin{array}{|c|} \hline 2 \\ \hline \end{array} \begin{array}{|c|} \hline 5 \\ \hline \end{array} \begin{array}{|c|} \hline 0 \\ \hline \end{array} + \begin{array}{|c|} \hline 2 \\ \hline \end{array} \begin{array}{|c|} \hline 5 \\ \hline \end{array} \begin{array}{|c|} \hline 3 \\ \hline \end{array} = \begin{array}{|c|} \hline 5 \\ \hline \end{array} \begin{array}{|c|} \hline 0 \\ \hline \end{array} \begin{array}{|c|} \hline 3 \\ \hline \end{array}$$

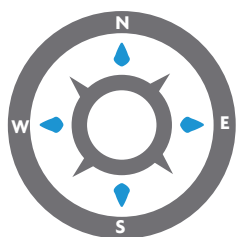
hundreds tens ones hundreds tens ones hundreds tens ones

Helping your child learn outside of school



1. Play math games with your child. For example, “I’m thinking of a number. It has 5 tens, 3 hundreds, and 4 ones. What is the number? 354.” Or, using a deck of cards, deal two cards and ask your child to add the two numbers. You can also identify a target number and ask your child to either add or subtract to obtain that target number (use a target of 20 or less).
2. Have your child explain the relationship between different numbers without counting. For example, 147 is 47 more than 100 and three less than 150.
3. Encourage your child to stick with it whenever a problem seems difficult. This will help your child see that **everyone** can learn math.
4. Praise your child when he or she makes an effort and share in the excitement when he or she solves a problem or understands something for the first time.

Additional Resources



For more information on the Common Core State Standards for mathematics, go to <http://www.corestandards.org/about-the-standards/key-points-in-mathematics> or <http://www.commoncoreworks.org>.

For more information on the standards in mathematics related to place value (Number and Operations in Base Ten), go to <http://commoncoretools.me/category/progressions/>.

For more information on helping your child learn mathematics (with activities from pre-school to grade five), go to <http://www2.ed.gov/parents/academic/help/math/index.html>.

For more information on Santa Ana Unified School District, go to <http://www.sausd.us>.