SUMMARY
Students learn to write 3-digit numbers in expanded form and word form.

COMMON CORE STANDARD(S)
2.NBT.A.3 Read and write numbers to 1,000 using base-ten numerals, number names, and expanded form.

DURATION
Two 45-minute classroom periods
Engage and Explore, Explain, Elaborate page 1—one 45-minute classroom period
Elaborate page 2, Evaluate—second 45-minute classroom period

MATERIALS
Base-ten blocks
Number cubes

ENGAGE AND EXPLORE
To develop place value to the hundreds, build on student understanding of place value to tens. Start by writing a numeral between 1 and 120 on the board, such as 89. Ask students to read the number aloud. Have one or two students explain how they know that this is “eighty-nine.” Repeat with other numbers until you are confident that students are comfortable with reading numerals up to 120.
Next, say a number aloud, such as “sixty-four.” Ask students to write down the number you have just said as a numeral. Then, ask for a volunteer to write it on the board and explain how they know that it is 64. Again, repeat with other numbers until students are comfortable with writing numerals up to 120.

Give each group of students a pair of number cubes. Have students roll the number cubes to get two digits. Have students write a 2-digit number using those digits. Then, have them break that number into tens and ones. Provide place ten blocks, if necessary. After students have found their answers, ask for some students to present their numbers and their solutions. Students’ solutions may vary, such as using base-ten blocks or words, but they should all represent the correct number of tens and ones.

Tell students that today they will learn to read and write numbers up to 1,000 in different forms, like the number 165. Ask students to predict how they should read this number out loud. If students get stuck, ask them how they would read 115 (one hundred fifteen). Help them extrapolate from there that for this number, they also need to start with “one hundred.” Tell students that the place value after tens is called hundreds. They will use what they already know about reading and writing numbers and about place value to help them read and write numbers with hundreds.

EXPLAIN

WATCH THE GENERATION GENIUS NUMBERS IN EXPANDED & WORD FORM (3-DIGIT NUMBERS) VIDEO AS A GROUP
Facilitate a conversation using the Discussion Questions.

ELABORATE

Direct students to use their new understanding to complete the practice problem worksheets. Page 1 contains bare mathematical problems to solidify understanding of the process. Page 2 contains application problems for students to apply the process to solve real-world problems.

EVALUATE

Have students gather in groups of 2 or 4 to compare and discuss their answers to the problems. Allow students enough time to communicate with their peers about their process and their thinking. Encourage students to use correct mathematical language when discussing their process. Have each group choose two questions they want more information about, or they want to discuss as a class.

When groups are ready, take questions from students. Encourage groups to answer questions brought up by other groups.

Students can play the online Kahoot! quiz game located below the video. It provides downloadable scores at the end of the quiz game. Alternatively, you can use the paper quiz, or the exit ticket questions. All these resources are located below the video in the assessment section.