Grade 2	Lesson: 10-2 Counting Hundreds, Tens, and Ones	Reference to English
Math Standard(s): 2.NBT.1 (also 2.NBT.1.b, 2.NBT.3		**Domain: Numbers and Operations in Base Ten**

Content Objective(s):	Language Objective(s):
Students will use place-value models to show numbers up to 1,000. **我会用模型来显示出到1,000的数字。**	Students will say numbers with hundreds tens and ones. 我会用百位数，十位数和各位素来说出数字。
Essential Understanding: Numbers can be used to tell how many. Our number system is based on groups of ten. Whenever we get 10 in one place value, we move to the next greater place value.	**Required Academic Vocabulary for Word Wall:** **Listen:** 千 **Read:** **Write:** **Speak:** **Sentence Frame:**
Materials: • Index Cards • Place-Value blocks (or teaching tool 17) • Whiteboards, Markers, Erasers • Counting Hundreds, Tens, and Ones (page 301) • Guided Practice (page 302)	**Additional Lesson Vocabulary:** 百
Lesson:	**Instructional Time: 30 minutes**

Opening: (4 minutes)
- Write 3 on the board.
- Students will start on the carpet.
- Have tens rods available to demonstrate.

T: "你已经学会怎么用模型显示百位数了。今天你会学习怎么用模型显示百位，十位和个位数。"

T: "用手指比给我看白板上的数字是什么。"

S: will show 3.

T: "这是十的棒子，我可以用这个来显示3吗？"

S: will say, "no."

T: "为什么？告诉你旁边的同学。"

S: will turn to their neighbor and say, "because there are only 3 ones."

T: 3里只有3个一，这还不到一个十。"

- Write 32 on the board.

T: "看白板上的数字。我可以用十的棒子来显示这个数字吗？用大拇指比给我看。"

S: will show thumbs up.

T: "没错，我可以用十的棒子来表示。我需要3个(hold up 3 tens rods). 1,2,3 或 10,20,30. 我需要用别的东西来显示这个数字吗？"

S: will respond, "yes, cubes."

T: "对，我需要2个方块。现在我有32。"

T: "32有十位数和个位数，所以需要十位和个位。"

Introduction to New Material (Direct Instruction): (8 minutes)
- Distribute Place-Value mats to each student or whiteboards markers and eraser they can draw place-value on.
- Write 245 on the board.
- Draw a place-value mat on the board.

T: "看白板，我画了一个长方形然后里面有三个正方形。右边的正方形是给个位数的，中间的是给十位数然后左边的是给百位数。我需要你们也在你们的白板上画出来。"

S: will draw a place-value mat on their boards.

T: "给我看你们的白板。"

- Teacher will check the boards to make sure the students drew the place-value mat correctly.

T: "很好，现在看白板上的数字：245。我来给你们看哪些位置方块可以用来表示这个数字。"

- Hold up place-value blocks – 2 hundreds, 4 tens rods and 5 cubes.

T: "我有几个百？"

S: will say, "you have 2 hundreds."

T: "没错，所以我会把2写在左边的正方形里，也就是百位数上。请你们跟着做。"

S: will write 2 in the hundreds place.

T: "有几个十？用手指比给我看。"

S: will show 4 fingers.

T: "没错，我有4个十。我会把它写在中间的正方形里，也就是十位数上。请你们跟着做。"

S: will write 4 in the tens place.

T: "最后，我有几个一？告诉你旁边的同学。"

S: will tell their neighbor, "5."

T: "我有几个一？"

S: will respond, "5."

T: "没错，我有5个一。我会把它写在右边的正方形里，也就是个位数上。请你们跟着做。"

S: will write 5 in the ones place.

T: "给我看你们的白板。"

- Teacher will check the student boards to make sure they wrote 245 correctly in the place-value mat.

T: "告诉你旁边的同学我们的数字是什么。"

S: will tell their neighbor, "we made the number 245."

T: "我们一起说出来：245。"

Guided Practice: (10 minutes)
Using the Modeling Cycle:
Teacher Does:

T: "现在换你们来练习了。我会告诉你一个三位数字。我会告诉你数字里的数为，但是我不会告诉你它们的顺序。你要听我给你的提示来找出这个三位数字是什么。"

T: "你们每个会拿十一张纸。"