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| <b>Grade 2</b>  | <b>Lesson: 10–3</b><br><b>Reading and Writing Numbers to 1,000</b> | <b>Reference to English</b>  |
| <b>Math Standard(s): 2.NBT.3 (also 2.NBT.1.a, 2.NBT.1.b)</b>  |  | <b>Domain: Numbers and Operations in Base Ten</b>  |
| <b>Content Objective(s):</b>  |  | <b>Language Objective(s):</b>  |
| <b>Students will identify and record three-digit numbers in expanded form, standard form and number word form.</b><br>我会用展开式，标准形式和文字式来说跟写出三位数字。   |  | Students will say numbers in expanded and word form.<br>我会用展开式和文字式来说出数字。   |
| <b>Essential Understanding:</b><br>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.   |  | <b>Required Academic Vocabulary for Word Wall:</b><br><b>Listen:</b><br><b>Read:</b><br><b>Write:</b><br><b>Speak:</b><br><b>Sentence Frame:</b> |
| <b>Materials:</b> <ul style="list-style-type: none"> <li>• Number Cubes (or Teaching Tools 30)</li> <li>• Place-Value blocks (or teaching tool 17)</li> <li>• Whiteboards, Markers, Erasers</li> <li>• Reading and Writing Numbers to 1,000 (page 305)</li> <li>• Guided Practice (page 306)</li> <li>• Independent Practice (307)</li> </ul> |  | <b>Additional Lesson Vocabulary:</b>   |
| <b>Lesson:</b>  |  | <b>Instructional Time: 30 minutes</b>  |

**Opening: (4 minutes) – English Teacher needs to reinforce this lesson in English**

- Write 538 on the board.
  - Use document cam to show the page numbers of the pages used in math.
  - Students will start on the carpet.
  - Pass out whiteboards, erasers and markers.
- T: “你们已经知道一个三位数字是用百位，十位和个位组成的。我们来看白板上的数字。”
- T: “用手指比给我看这个数字有几个十。”
- S: will show 3 with their fingers.
- T: “用手指比给我看这个数字有几个一。”
- S: will show 8 with their fingers.
- T: “用手指比给我看这个数字有几个百。”
- S: will show 5 with their fingers.
- T: “今天你会学习怎么用不同的方式念和写出到1,000的数字。”
- Show the page number on page 305.
- T: “看这张纸上的页数。它是用两个不同方式写出来的。我要你们用两个不同方式来写出三百零五。”
- S: will write 305 on their board in 2 different ways.
- T: “给我看你的白板。”
- T: “很好，现在我再教你们写出305的另一个方式。你可以写成百位，十位和个位数的总和。”
- Teacher will write  $300 + 0 + 5$  on the board.
- T: “你可以在你的白板上写下第三个方式吗？”
- S: will write  $300 + 0 + 5$  on their board.
- T: “给我看你的白板。”

**Introduction to New Material (Direct Instruction): (8 minutes)**

- Write 519 on the board.
- T: “你平常会这样写数字，这就叫做标准形式。”
- Put ‘Standard Form’ vocabulary card next to 519.
  - Write 519 using words. Five hundred nineteen.
- T: “你可以用文字这样写，这就叫做文字式。”
- Put ‘Number Word’ vocabulary card next to five hundred nineteen.
  - Write  $500 + 10 + 9 = 519$  on the board.
- T: “这个是519的展开式。”
- Put ‘Expanded Form’ next to  $500 + 10 + 9 = 519$ .
- T: “我们再来做一题。我会把它写在白板上，但是我会用展开式写出来然后你要用标准形式和文字式写出来。”
- Write  $600 + 90 + 5 = \underline{\quad}$  on the board.
- S: will write the number word and standard form for 695 on their whiteboards.
- T: “给我看你的白板。”
- Teacher will check the student work.
- T: “很好。现在把数字念给你旁边的同学听。”
- S: will say, “six hundred ninety five” to their neighbor.
- T: “很好。”

**Guided Practice: (10 minutes)**

Using the Modeling Cycle:

Teacher Does:

T: “现在换你和一个同学一起来练习了。每组会拿到305页和一个数字方块。你们要丢数字方块3次来知道你的数字是什么。你会把第一个数字写在百位的位置上，把第二个数字写在十位的位置上，把第三个数字写在个位的位置上。我先来示范给你们看。”

1 Student Does with Teacher:

- T: “我需要一个学生来帮忙。”
- Teacher will choose a student.
- T: “你要丢3次的数字方块。我会写下数字。”
- S: will roll the dice.
- T: “你得到\_\_\_\_。我会把它写在百位的位置上。”
- S: will roll the dice again.
- T: “你得到\_\_\_\_。我会把它写在十位的位置上。”
- S: will roll the dice again.

**Assessment:**

**Independent Practice**

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