

Understanding the Value of Place Value

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World, **meet**
Michelle Williams.

Michelle, meet the world.



Michelle Williams is a veteran educator committed to finding new and exciting ways to reach the young minds she molds in her classroom each day.

Her creative educational concepts have helped ignite a fire in the minds of hundreds of the world's most impressionable and vulnerable youth through her own classroom and mentoring and advising new teachers. Michelle is dedicated to Fueling Great Minds.

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Agenda

- Essential Question
- When does place value begin?
- Readiness Standards
- Supporting Standards
- Base 10 Blocks vs Number Disks
- Activities
- Reflections and feedback

Essential Question



Why is it important to use place value to connect number concepts?



At what grade level does place value begin?

- 1.2(C) *use* objects, pictures, and expanded and standard forms to represent numbers up to 120 (RS)
- 1.2(G) represent the comparison of two numbers to 100 using the symbols $>$ (RS)
- 1.5© - *use* relationships to determine the number that is 10 more and 10 less than a give number (SS)
- 2.2(C) – *use* place value to compare and order whole numbers up to 1,200 using comparative language and symbols (RS)
- 2.2(B) *use* standard, word, and expanded forms to represent numbers up to 1,200 (RS)
- 2.2(A) *use* concrete and pictorial models to compose and decompose numbers up to 1,200 in more than one way as a sum of so many thousands, hundreds, tens, and ones (SS)



What is the difference between readiness and supporting standards?

Readiness Standards

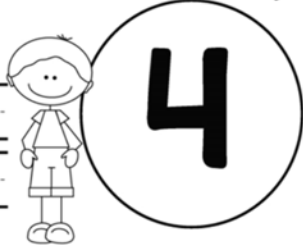
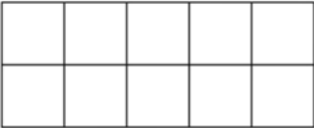
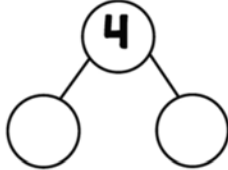
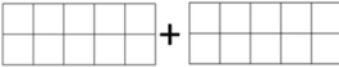
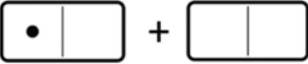
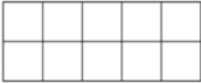
- are essential for success in the current grade or course
- are important for preparedness for the next grade or course
- support college and career readiness
- necessitate in-depth instruction
- address significant content and concepts

Supporting Standards

- introduced in the current grade or course but may be emphasized in a subsequent year
- reinforced in the current grade or course but may be emphasized in a previous year
- play a role in preparing students for the next grade or course but not a central role
- address more narrowly defined content and concepts

Laying the foundation for place value



Name _____		Number of the Day	
four			
Ten Frame	Number Bond		
			
Number Sentence	Tally		
			
_____ + _____ = _____			
Missing Addend	Even or Odd		
			
_____ + _____ = _____	even	odd	

Why is 10 so important?

tens

ones




Making the connection

Name _____

Number of the Day


Word Form


twenty-five



25

twenty-four

<p style="text-align: center;">Place Value</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border-right: 1px solid black; text-align: center; padding: 5px;">tens</td> <td style="text-align: center; padding: 5px;">ones</td> </tr> <tr> <td style="border-right: 1px solid black; text-align: center; padding: 5px;">even</td> <td style="text-align: center; padding: 5px;">odd</td> </tr> </table>	tens	ones	even	odd	<p style="text-align: center;">Decomposing</p> <div style="text-align: center;">  </div>							
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<p style="text-align: center;">Fast on Facts</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border-right: 1px solid black; padding: 5px;">____ + ____</td> <td style="padding: 5px;">____ - ____</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">____ + ____</td> <td style="padding: 5px;">____ - ____</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">____ + ____</td> <td style="padding: 5px;">____ - ____</td> </tr> </table>	____ + ____	____ - ____	____ + ____	____ - ____	____ + ____	____ - ____	<p style="text-align: center;">Money</p>					
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<p style="text-align: center;">Addition/Subtraction</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">$\begin{array}{r} 17 \\ + 8 \\ \hline \end{array}$</td> <td style="padding: 5px;">$\begin{array}{r} 20 \\ + 5 \\ \hline \end{array}$</td> <td style="padding: 5px;">$\begin{array}{r} 27 \\ - 2 \\ \hline \end{array}$</td> </tr> </table>	$\begin{array}{r} 17 \\ + 8 \\ \hline \end{array}$	$\begin{array}{r} 20 \\ + 5 \\ \hline \end{array}$	$\begin{array}{r} 27 \\ - 2 \\ \hline \end{array}$	<p style="text-align: center;">More or Less</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">$\begin{array}{r} 25 \\ \hline \end{array}$</td> <td style="padding: 5px;">- 1 = _____</td> </tr> <tr> <td style="padding: 5px;">$\begin{array}{r} 25 \\ \hline \end{array}$</td> <td style="padding: 5px;">+ 1 = _____</td> </tr> <tr> <td style="padding: 5px;">$\begin{array}{r} 25 \\ \hline \end{array}$</td> <td style="padding: 5px;">- 10 = _____</td> </tr> <tr> <td style="padding: 5px;">$\begin{array}{r} 25 \\ \hline \end{array}$</td> <td style="padding: 5px;">+ 10 = _____</td> </tr> </table>	$\begin{array}{r} 25 \\ \hline \end{array}$	- 1 = _____	$\begin{array}{r} 25 \\ \hline \end{array}$	+ 1 = _____	$\begin{array}{r} 25 \\ \hline \end{array}$	- 10 = _____	$\begin{array}{r} 25 \\ \hline \end{array}$	+ 10 = _____
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Essential Question



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