Whole Numbers: Place Value

Students	Learning Continuum Statements:
Students:	RIT 151-160:Represents whole numbers within 20 with models
Students:	RIT 161-170:
	 Reads and writes whole numbers within 1,000 as hundreds, tens, and ones Reads and writes whole numbers within 1,000 in word form Reads and writes whole numbers within 100 in word form Reads and writes whole numbers within 20 in word form Represents whole numbers within 1,000 with models Represents whole numbers within 100 with models Represents whole numbers within 20 with models
Students:	 RIT 171-180: Composes or decomposes tens in a model to represent whole numbers within 20 in multiple ways Identifies the number of tens and ones in a model Knows place-value names in numbers through the hundred thousands Reads and writes whole numbers within 1,000 as hundreds, tens, and ones Reads and writes whole numbers within 1,000 in expanded form Reads and writes whole numbers within 10,000 in expanded form Reads and writes whole numbers within 10,000 in expanded form Reads and writes whole numbers within 10,000 in word form Reads and writes whole numbers within 10,000 in word form Reads and writes whole numbers within 100 as tens and ones Reads and writes whole numbers within 100 in expanded form Reads and writes whole numbers within 100 in word form Reads and writes whole numbers within 100 in word form Reads and writes whole numbers within 100 in expanded form Reads and writes whole numbers within 100 in expanded form Reads and writes whole numbers within 100 in word form Reads and writes whole numbers within 100 in word form Represents whole numbers within 100 in word form Represents whole numbers within 1,000 with models Represents whole numbers within 100 with models Understands the value of a digit in whole numbers within 1,000
Students:	 RIT 181-190: Identifies the number of tens and ones in a model Knows place-value names in numbers through the hundred thousands Reads and writes whole numbers within 1,000 as hundreds, tens, and ones Reads and writes whole numbers within 1,000 in expanded form Reads and writes whole numbers within 1,000 in word form Reads and writes whole numbers within 10,000 in expanded form Reads and writes whole numbers within 10,000 in expanded form Reads and writes whole numbers within 10,000 in expanded form

- Reads and writes whole numbers within 100,000 in word form
- Represents whole numbers within 1,000 with models
- Understands the value of a digit in whole numbers within 1,000
- Understands the value of a digit in whole numbers within 1,000,000

Students:	RIT 191-200:
	 Composes or decomposes tens in a model to represent whole numbers within 100 in multiple ways Knows place-value names in numbers through the hundred thousands Reads and writes whole numbers greater than 1,000,000 in word form Reads and writes whole numbers within 1,000 in expanded form Reads and writes whole numbers within 10,000 in word form Reads and writes whole numbers within 10,000 in expanded form Reads and writes whole numbers within 10,000 in expanded form Reads and writes whole numbers within 100 as tens and ones Reads and writes whole numbers within 100,000 in expanded form Reads and writes whole numbers within 100,000 in expanded form Reads and writes whole numbers within 100,000 in word form Reads and writes whole numbers within 100,000 in word form Represents whole numbers within 100,000 in word form Represents whole numbers greater than 1,000 with models Represents whole numbers within 1,000 with models Understands that 10 ones is the same as 1 ten Understands the value of a digit in whole numbers within 1,000,000
Students:	 RIT 201-210: Decomposes whole numbers within 100 into tens and ones in multiple ways Knows place-value names in numbers greater than the hundred thousands Knows place-value names in numbers through the hundred thousands Reads and writes whole numbers greater than 1,000,000 in word form Reads and writes whole numbers within 1,000,000 in expanded form Reads and writes whole numbers within 10,000 as thousands, hundreds, tens, and ones Reads and writes whole numbers within 100,000 in expanded form Reads and writes whole numbers within 100,000 in word form Reads and writes whole numbers within 100,000 in word form Reads and writes whole numbers within 100,000 in word form Reads and writes whole numbers within 100,000 in word form Reads and writes whole numbers within 100,000 in word form Reads and writes whole numbers within 100,000 in word form Reads and writes whole numbers within 100,000 in word form Reads and writes whole numbers greater than 1,000 with models Understands patterns of zeros when multiplying by 10, 100, 1,000, etc. Understands that 10 ones is the same as 1 ten Understands that 10 tens is the same as 1 hundred Understands that the same digit, moved one place to the left, now represents 10 times
	 the value Understands the value of a digit in whole numbers greater than 1,000,000
Students:	RIT 211-220:
	 Decomposes whole numbers within 100 into tens and ones in multiple ways Reads and writes whole numbers greater than 1,000,000 in word form Reads and writes whole numbers within 1,000,000 in word form Reads and writes whole numbers within 100,000 in expanded form
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	 Reads and writes whole numbers within 100,000 using powers of 10 in exponential form Understands patterns of zeros when multiplying by 10, 100, 1,000, etc. Understands that 10 ones is the same as 1 ten Understands that the same digit, moved one place to the left, now represents 10 times the value Understands that the same digit, moved one place to the right, now represents 1/10 the value
Students:	RIT 221-230:
	 Decomposes whole numbers within 1,000 into hundreds, tens, and ones, in multiple ways Reads and writes whole numbers within 100,000 using powers of 10 in exponential form Understands patterns of zeros when multiplying by 10, 100, 1,000, etc. Understands that the same digit, moved one place to the left, now represents 10 times the value Understands that the same digit, moved one place to the right, now represents 1/10 the value
Students:	RIT 231-240:
	 Decomposes whole numbers within 1,000 into hundreds, tens, and ones, in multiple ways Reads and writes whole numbers greater than 100,000 using powers of 10 in exponential form Reads and writes whole numbers within 100,000 using powers of 10 in exponential form Understands that the same digit, moved one place to the left, now represents 10 times the value Understands that the same digit, moved one place to the right, now represents 1/10 the value Understands whole-number place-value relationships
Students:	RIT 241-250:
	 Reads and writes whole numbers greater than 100,000 using powers of 10 in exponential form Understands that the same digit, moved one place to the left, now represents 10 times the value Understands that the same digit, moved one place to the right, now represents 1/10 the value