








Number and Place Value: Determine Whole Number Digit Values

Aim: Read, write, order and compare numbers up to 1 000 000 and determine the value of each digit. To determine the value of each digit in numbers to 1 000 000.	Success Criteria: I can write numbers correctly into a place value grid. I can describe the value of different digits. I can solve reasoning challenges about the value of the digits in a number.	Resources: Lesson Pack
	Key/New Words: Million, represent, number, multiply, ten, hundred, thousand, ten thousand, hundred thousand.	Preparation: Place Value Grid – one per child Differentiated Digit Detectives Top Cards – one per pair, printed onto card and cut out Differentiated Digit Detectives Challenge Sheet – one per child Diving into Mastery Activity Sheets – as required

Prior Learning: It will be helpful if children have covered reading and writing numbers up to 1 000 000.

Learning Sequence

	Remember It: Children read the number shown on the Lesson Presentation . Show the number sentences about the number. Children discuss ways to complete the sentences with facts about the number. Share the answers shown on the Lesson Presentation .	
	Describing Digits: Introduce the lesson and explain place value. Display the place value grid as shown on the Lesson Presentation and click to explain how to enter numbers correctly into to the grid. Go through the next slides to demonstrate place value firstly using place value counters then numbers on a grid to discuss the value of the different digits in the number. Children choose one of the numbers on the Lesson Presentation . Can children write it accurately onto their Place Value Grid? Show the answers and compare the value of the digits in the numbers.	
	Digit Detectives: Children use their Place Value Grid to identify the value of the magnified digit in each of the numbers shown on the Lesson Presentation . Can children describe the value of each digit? Can children solve the reasoning problems by identifying the value of the different digits?	
	Digit Detectives Top Cards: Children use the differentiated Digit Detectives Top Cards to compare the value of the digits in a number. Share the instructions on the Lesson Presentation and ensure children understand how to compare the digits. The player with all the cards, or most of the cards, at the end is the winner. Can children identify and compare the value of the different digits?	
	Cards feature numbers up to 100 000, as well as a place value grid. Cards feature numbers up to 1 000 000, as well as a place value grid. Cards feature numbers up to 10 000 000.	
	Digit Detectives Challenge: Children complete the digit challenges on the differentiated Digit Detectives Challenge Sheet .	
	Children work with five-digit numbers to find one more or less than the digits in a given place. Children work with six-digit numbers to find one more or less than the digits in a given place. Children work with seven-digit numbers to solve reasoning puzzles.	

	<p>Diving into Mastery: Schools using a mastery approach may prefer to use the following as an alternative activity. These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.</p> <p> Children complete statements about a number. They then identify the value of digits.</p> <p> Children solve a problem and reason as to how to reverse digits of a number. They then answer a question linked to common mistakes made when identifying the digits in a number.</p> <p> Children complete problems linked to the value of digits within 6-digit whole numbers.</p>	
	<p>Digit Reversal: Children solve the puzzles on the Lesson Presentation by reversing the digits in the number shown. Can children solve problems involving identifying the value of different digits?</p>	

<p>Exploreit</p> <p>Solveit: Children solve the place value problems in this</p> <p>Playit: Children play this hands-on game to reinforce their understanding of the value of different digits. Follow the instructions on the to combine PE and place value.</p> <p>Learnit: Support children's understanding of the key objectives using this double-sided featuring important mathematical vocabulary and visual representations.</p>
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