

Number and Place Value:








Order Whole Numbers to 1 000 000

Aim: Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit. To order and compare numbers to 1 000 000.	Success Criteria: I can determine the value of each digit in a number. I can use a place value grid to compare numbers. I can put numbers in a given order.	Resources: Lesson Pack Whistle
	Key/New Words: Place value, digit, compare, order, higher, lower, greater than, less than, millions, thousands, hundreds, tens, ones, zero, partition, digit.	Preparation: Build a Number Cards - cut out, one per class Differentiated Number Ordering Cards - cut out, one per class Differentiated Spiral Ordering Sheet - one per pair Star Swap Activity Sheet - as required

Prior Learning: It will be helpful if children have covered reading and writing numbers with up to at least 1 000 000, and identifying the value of each digit.

Learning Sequence

	Remember It: Children read different representations of numbers shown on the Lesson Presentation, identifying which is the odd one out.	
	Build a Number: Give each child a Build a Number Card. Children move around the space with their cards, then get into groups of six when the whistle is blown. Each child in the group should have a different coloured card. Children build a number using the parts of numbers shown on their cards. Show the next slide on the Lesson Presentation, which gives the criteria for winning this round. Find the winning group, then repeat the game, showing a different slide with different criteria for winning.	
	Ordering Numbers: Introduce the table showing the weekly takings at a theme park as shown on the Lesson Presentation. Model how to enter the digits of each number in the table into a place value grid using the Lesson Presentation. Click through the slides to explain how to compare four of the numbers by looking at the value of their digits. Can children order the three remaining numbers by comparing the value of their digits? Share the final order of the numbers and discuss any misconceptions.	
	Explain Yourself: Show the set of numbers on the Lesson Presentation. Can children identify which number would be third if they were put in order? Can children explain how they ordered the numbers? Referring to the Lesson Presentation, model an explanation of how to order the numbers to identify the third number in the set.	
	Connect the Dots: Children order the numbers in the circle on the Lesson Presentation by joining the dots. Click through the slides to reveal the answer. Can children put the numbers in order?	
	Spiral Ordering: Children take turns to draw a differentiated Number Ordering Card. Children label their number on the differentiated Spiral Ordering Sheet. The winner is the player who is the first to get three numbers in order on the spiral. Can children put numbers in a given order?	
	Numbers up to 10 000. Spiral has quarter, half way and three quarter points marked and labelled.	
	Numbers up to 100 000. Spiral has half way point marked and labelled.	
	Numbers up to 1 000 000.	

	<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> To compare amounts using inequality symbols, order amounts and position numbers on a number line to 1 000 000.</p> <p> Children interpret clues and match the clues to the set of ordered numbers. They answer reasoning questions about numbers that can be made - and ordered - from a set of number cards.</p> <p> Children decide whether statements about a set of ordered numbers - some numbers unknown - are true or false, explaining their reasoning. They explain whether generalised statements about ordering are always, sometimes or never true.</p>	
	<p>Star Swap: Show the star on the Lesson Presentation and explain that two opposite pairs of numbers have been swapped. Can children work out which pairs need to swapped back to put the numbers in order? Children use the Star Swap Activity Sheet if required. Share and discuss the answer.</p>	

<p>Exploreit</p> <p>Findit: Set up a number hunt around your classroom or school. Write numbers up to 1 000 000 on lolly sticks and hide them. Children find the numbers, then put them in order.</p> <p>Orderit: Children use _____ t to order six-digit numbers.</p> <p>Learnit: Children will find this visually exciting _____ a useful tool for ordering and comparing numbers to 1 000 000.</p>
--