



















Number and Place Value: Compare and Order Numbers

<p>Aim: Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit.</p> <p>DfE Ready-to-Progress Criteria: Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and nonstandard partitioning. (6NPV-2)</p> <p>To compare and order numbers up to 10 000 000.</p>	<p>Success Criteria: I can identify the value of each digit up to 10 000 000. I can compare numbers up to 10 000 000. I can order sets of numbers up to 10 000 000.</p>	<p>Resources: Lesson Pack</p>
	<p>Key/New Words: Order, compare, greater, less, place value.</p>	<p>Preparation: Differentiated Song Stars Activity Sheet – per child Place Value Grid – as required Extra Challenge Activity Sheet – as required Diving into Mastery Activity Sheets – as required</p>

Prior Learning: It will be helpful if children have covered place value of numbers up to 10 000 000.

Learning Sequence

	<p>Remember It: Children find 7-digit numbers which fit the clues shown on the Lesson Presentation.</p>	
	<p>Comparing Numbers: Explain how to compare the place value of numbers using the example shown on the Lesson Presentation. Move on to comparing larger numbers, using the technique of comparing the place value of each digit. Click through the Lesson Presentation to explain how to compare the place value of the digits in each number until you are able to identify a difference in the digits in the same place. Show how we compare these digits to find the larger number. Can children identify the value of each number up to 10 000 000? Show children the pairs of numbers on the Lesson Presentation. Can children identify the bigger number in each pair? Choose children to click the number they think is the biggest in each pair. If they are correct, the number will turn blue.</p>	
	<p>Greater Than and Less Than: Show children the 'greater than' and 'less than' symbols on the Lesson Presentation. Children decide which symbol to use to complete the calculations, explaining their answers to their partner. Can children compare numbers up to 10 000 000?</p>	
	<p>Ordering Numbers: Use the Lesson Presentation to demonstrate how to use knowledge of place value to order sets of numbers. Can children order sets of numbers up to 10 000 000?</p>	
	<p>Song Stars: Children complete the differentiated Song Stars Activity Sheet, using their knowledge of place value to compare and order numbers up to 10 000 000.</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="244 1379 592 1514">  <p>Children compare and order numbers up to 10 000 000, referring to the Place Value Grid if necessary.</p> </div> <div data-bbox="624 1379 959 1514">  <p>Children compare and order numbers up to 10 000 000. They compare more than one money amount.</p> </div> <div data-bbox="999 1379 1334 1570">  <p>Children compare and order numbers up to 10 000 000. They compare more than one money amount. They solve puzzles to compare numbers.</p> </div> </div>	
	<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> <div style="margin-top: 10px;">  <p>Children identify which numbers can complete an inequality equation correctly. They sort numbers based on whether they fit comparison statements. They put earnings of artists into descending order.</p> </div> <div style="margin-top: 10px;">  <p>Children reason about how to arrange counters on a place value grid to create a number that is smaller than a given number. They reason about comparison statements, explaining whether they are true, false or cannot tell. They explain how they know the value of a covered digit in a set of ordered numbers.</p> </div> <div style="margin-top: 10px;">  <p>Children problem-solve to find the smallest and greatest possible numbers to satisfy a comparison statement. They then write their own where there is only one possible answer. They look at a set of ordered numbers - with missing digits - and fill in the digits to make the order of numbers correct.</p> </div>	



Which Number: With their partner, children consider which numbers will fit in a comparison statement shown on the [Lesson Presentation](#).



ExploreIt

- BuildIt:** Challenge groups of children to build number sentences using number cards and the 'greater than' and 'less than' symbols. Give each group several number cards and a 'greater than' card and a 'less than' card. They should each hold a card and order themselves to build an accurate number sentence.
- RollIt:** Children use a die to roll two numbers, each with a specified amount of digits. They should then compare the numbers they rolled and use the 'greater than' and 'less than' symbols to show their comparisons.