







Number and Place Value:













Greater Than and Less Than Representations

<p>Aim: Compare and order numbers from 0 up to 100; use <, > and = signs.</p> <p>To compare numbers.</p> <p>DfE Ready to Progress: Recognise the place value of each digit in two-digit numbers, and compose and decompose two-digit numbers using standard and non-standard partitioning.2NPV1</p>	<p>Success Criteria: I can compare two numbers. I can say which number is greater. I can say which number is less. I can use the symbols < and >.</p>	<p>Resources: Lesson Pack</p> <p>Whiteboards and pens - class set</p> <p>Dice</p> <p>Counters</p>
	<p>Key/New Words: Numbers 0-100, up, back, zero, teen, two-digit, represent, tens, ones, greater than, less than, equal, larger, smaller, quantity.</p>	<p>Preparation: Place Value Matching Cards – one per pair Greater Than Less Than Cards – one per pair Number Picture Flashcards – as required Number Cards (0-50) – as required Hungry Hamster Race Board Game – one per pair Diving into Mastery Activity Sheets – as required</p>

Prior Learning: It will be helpful if children have a secure understanding of counting, reading and writing numbers to 100. [Click here](#) for lessons on this.

Learning Sequence

	<p>Remember It: Introduce the partitioned two-digit numbers on the Lesson Presentation. Children work with a partner to identify the value of the missing tens or ones on the part-whole diagrams, and to make sure that the written description of the tens and ones in the number is correct. They display their answer on a whiteboard and explain their reasoning.</p>	
	<p>The Hungry Hamsters: Introduce the children to the hungry hamsters. Explain that they will always choose the greater amount. Remind children about the concepts of 'greater than' and 'less than'. Looking at the Lesson Presentation, work as a class to identify the plate that represents the greater number. Explain how to use the 'greater than' and 'less than' signs to compare numbers. Can the children compare two numbers?</p>	
	<p>Feeding the Hungry Hamsters: Children work in pairs with a set of Place Value Matching Cards and the Greater Than Less Than Cards. They select one card, and then another, at random, then choose either a 'greater than' or 'less than' card to compare them. Can the children say which is greater and which is less?</p>	

	<p>Hamster Wheel: Children work in pairs to complete the differentiated activities, using the symbols $<$ and $>$ to compare two-digit numbers in different representations. Can the children use the $<$ and $>$ symbols to compare numbers?</p> <div style="display: flex; justify-content: space-between;"> <div data-bbox="236 219 587 712">  <p>Children work in pairs with the Number Picture Flashcards and select a number at random. They spin the Hamster Wheel. They then have ten seconds to find as many cards as they can that are greater than or less than the chosen number, depending on what the spinner landed on. The child with the most correct cards wins the round.</p> </div> <div data-bbox="619 219 970 712">  <p>Children work in pairs with the Number Cards (0-50) and select a number at random. They spin the Hamster Wheel. They then have ten seconds to find as many cards as they can that are greater than or less than the chosen number, depending on what the spinner landed on. The child with the most correct cards wins.</p> </div> <div data-bbox="1002 219 1353 712">  <p>Children work in pairs with the Place Value Matching Cards and select a number at random. They spin the Hamster Wheel. They then have ten seconds to find as many cards as they can that are greater than or less than the chosen number, depending on what the spinner landed on. The child with the most correct cards wins.</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 complete greater than and less than statements with the right number to make them correct.</p> </div> <div style="margin-top: 10px;">  <p>Children use their understanding of place value to reason whether an answer is correct and find further ways of completing a problem.</p> </div> <div style="margin-top: 10px;">  <p>Children use their understanding of the inequality symbols to solve a puzzle and then create their own.</p> </div>	
	<p>Hungry Hamster Race: Children use their knowledge of comparing numbers to complete the challenges featured on the Hungry Hamster Race Board Game. Players start on the start square and take it in turns to roll the dice and take their turn. If they complete the challenge correctly, they remain in the game. If they answer incorrectly, they must stay on that square until they answer the question correctly. The children should explain their reasoning. The first one to reach the finish square wins the game.</p>	

Exploreit

- Thinkit:** Play a game of 'I'm thinking of a number...'. Children must ask the thinker questions to which they can only answer 'yes' or 'no'. Questions such as 'Is it greater than...?' or 'Is it less than...?' should be encouraged.
- Makeit:** Children use the **Place Value Matching Cards** and select a card at random. Using small manipulatives or equipment such as base ten, children must make a number greater than or less than the number shown on the card.
- Writeit:** Children work in groups, taking it in turns to select a card at random from the **Number Cards (0-50)**. The rest of the group must write a sentence including 'is greater than' or 'is less than' on a whiteboard, using the number selected.
- Learnit:** Children will find this visually exciting **Knowledge Organiser** useful tool for supporting their understanding of number and place value.