

# Number and Algebra: Number and Place Value: Number Comparisons

## Australian Curriculum

This lesson plan could be used to support the teaching and learning of the following Content Description from the Australian Curriculum.

### Y5 – Number and Algebra, Number and Place Value

Use estimation and rounding to check the reasonableness of answers to calculations (ACMNA099)

<p><b>Child-Friendly Aim:</b> I can order and compare numbers to at least 1 000 000.</p>	<p><b>Resources:</b> <b>Lesson Pack</b></p> <p>Box - 1 per group, if not using the <b>Popcorn Box Net</b></p>	<p><b>Preparation:</b> <b>Popcorn Box Net</b> - 1 per group of 3, assembled before the lesson, if required</p> <p><b>Popcorn Number Cards</b> - 1 per group of 3, cut out and screwed up into a ball to look like popcorn, and placed into the Popcorn Box or a different, suitable box</p>
<p><b>Success Criteria:</b></p> <p>I can determine the value of each digit in a number.</p> <p>I can use a place value grid to compare numbers.</p> <p>I can use the greater than and less than symbols.</p>	<p><b>Key/New Words:</b></p> <p>Place value, digit, compare, order, higher, lower, greater, less.</p>	<p><b>Popcorn Symbol Cards</b> - 1 per group of 3, cut out and screwed up into a ball to look like popcorn, and placed into the Popcorn Box or a different, suitable box</p> <p>Differentiated <b>Number Hunt Cards</b> - 1 per class, cut out and hidden around the school or classroom</p> <p>Differentiated <b>Number Hunt Activity Sheet</b> - 1 per child</p>

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

## Learning Sequence

	<p><b>Numbers in Words:</b> Children solve the calculations shown on the <b>Lesson Presentation</b>. Can children solve the calculations written in words?</p>	
	<p><b>Greater Than and Less Than:</b> Introduce the use of the greater than and less than symbols to compare numbers referring to the examples shown on the <b>Lesson Presentation</b>. Explain how the wider side of the symbol opens out towards to bigger number, using the diagram on the <b>Lesson Presentation</b>. Click to identify the meaning of the symbol.</p>	
	<p><b>Popcorn Comparisons:</b> Put children into groups of three, where possible. Give each group their <b>Popcorn Box</b> (if using) filled with the screwed up <b>Popcorn Number Cards</b> and the <b>Popcorn Symbol Cards</b>. Each group member takes a Popcorn Card. Each group should have two white cards and one yellow card. Groups assemble their cards to create an accurate inequality. Repeat with the remaining <b>Popcorn Cards</b> in the box. You may wish to photograph children's work. Can children use the greater than and less than symbols to compare numbers?</p>	
	<p><b>The Great Number Hunt:</b> Children go around the classroom or school to find the hidden differentiated <b>Number Hunt Cards</b>. Children record the numbers they find on their differentiated <b>Number Hunt Activity Sheet</b>, then use the numbers to complete the number sentences on the activity sheet. Can children use the greater than and less than signs to compare numbers?</p> <p>  Numbers up to 100 000.                Numbers up to 1 000 000.                Numbers up to 10 000 000.         </p>	
	<p><b>Symbol Selection:</b> Children select the correct symbol to complete each number sentence. Choose children to click on a symbol for each number sentence. If they choose correctly, the symbol will turn green. Can children use the greater than, less than and equals symbols to compare numbers?</p>	

## Masterit

**Rollit:** Children work in pairs and take turns to roll a four-digit, five-digit or six-digit number. Children compare their numbers using the greater than or less than symbols.

**Compareit:** Use these differentiated **Order and Compare Numbers Mastery Activity Sheets** to master ordering and comparing numbers.