## Parents as Partners: Learning the Language of Maths



What is the	<b>Part-part-whole (PPW):</b> refers to how a whole number can be split into parts. The PPW model is used in each grade from prep.
language of maths?	Subitise: refers to a way of instantly counting. It refers to getting to how many in a set without
	going through counting each one in the set's position.
	<b>Partitioning:</b> refers to breaking a number into parts without changing the overall quantity. Partitioning is used in each grade from prep, where they recognise parts in small numbers (eg 4 is composed as 2 and 2; 10 is composed of 3 and 7 etc) and continue using throughout all grades. Partitioning is characterised into 3 types – standard, non-standard and flexible – and is written both in numbers and words:
	<b>Standard partitioning</b> = splitting numbers into the individual values of each digit in a number. Example 485: 400 + 80 + 5 4 hundreds, 8 tens, 5 ones
	Non-Standard Partitioning = is breaking numbers in ways that don't use the place value of each digit. Example 485: 480 + 5 48 tens and 5 ones
	<b>Flexible partitioning</b> = shows flexible ways to break the number up. Example 485 = 250 + 120 + 30 + 65 + 11 + 9 25 tens and 12 tens and 3 tens and 65 ones and 11 ones and 9 ones

Why is this important?	<b>Part-part whole:</b> Part-part-whole allows students to see the relationship between a number and its component parts. This helps students make connections between addition and subtraction, particularly in finding missing parts.
	<b>Subitise:</b> Subitising is an essential part of developing number sense in the early years by helping children to relate numbers to actual items or groups of items. Subitising also assists in the development of number sense by continually developing the concept that refers to a child's fluidity and flexibility with numbers and what numbers mean.
	<b>Partitioning:</b> It is extremely important your child can explain how they have arrived at an answer. Partitioning helps your child understand numbers, their patterns and relationships. We want children to reason mathematically; they need to be asking themselves can I do this in my head? Is there a more efficient strategy I could use? Once your child understands partitioning, understanding algorithms (written addition, subtraction, multiplication, division) becomes more fluid.



How do we	Mango Hill utilises the scales to closely monitor all childrens' progress. PPW, subitising and
know how	partitioning are integrated within most maths units, and are on scales at various times
our children	through a child's ability to quickly / fluently calculate addition and subtraction mentally.
are	
progressing?	

What	Parents can assist in their child's skills in PPW, subitising and partitioning at home through
support can	many incidentals – practice making groups of 10 things; make links between play and numbers
be provided	games that involve dice; count, match, sort, order; have your child assist with the money when
at home?	shopping; ask questions about numbers such 'if there are 65 pages in the book and we've read
	20, how many more to go?';