

# Resource

0 – 25 Specialist Teaching And Support Service

## Resource ideas to teach the 45 Number Sight facts

Much like teaching sight words to children when they learn to read, it is crucial to teach the 45 number facts to automaticity. Children who struggle with number concepts and retaining number facts benefit from multi-sensory teaching where they can explore the components of numbers. Dot patterns, Cuisenaire rods, two coloured counters and Numicon are ideal resources to develop children's understanding and retention of number facts. Below are the 45 number facts and overleaf are ideas for teaching.



	Number of sight facts									Totals	
	1	2	3	4	5	6	7	8	9		
<b>2</b>	1 + 1										1 sight fact
<b>3</b>	2 + 1	1 + 2									2 sight facts
<b>4</b>	3 + 1	1 + 3	2 + 2								3 sight facts
<b>5</b>	4 + 1	1 + 4	3 + 2	2 + 3							4 sight facts
<b>6</b>	5 + 1	1 + 5	4 + 2	2 + 3	3 + 3						5 sight facts
<b>7</b>	6 + 1	1 + 6	5 + 2	2 + 5	4 + 3	3 + 4					6 sight facts
<b>8</b>	7 + 1	1 + 7	6 + 2	2 + 6	5 + 3	3 + 5	4 + 4				7 sight facts
<b>9</b>	8 + 1	1 + 8	7 + 2	2 + 7	6 + 3	3 + 6	5 + 4	4 + 5			8 sight facts
<b>10</b>	9 + 1	1 + 9	8 + 2	2 + 8	7 + 3	3 + 7	6 + 4	4 + 6	5 + 5		9 sight facts
<b>Total</b>										<b>45 sight facts</b>	

### Things to note:

When teaching number facts also explore the inverse relationship between addition and subtraction. So, if a child knows that  $1 + 1 = 2$  they also know  $2 - 1 = 1$ .

	If we know the number facts above, we should also know these facts!								
	1	2	3	4	5	6	7	8	9
<b>2</b>	2 - 1 = 1								
<b>3</b>	3 - 2 = 1	3 - 1 = 2							
<b>4</b>	4 - 3 = 1	4 - 1 = 3	4 - 2 = 2						
<b>5</b>	5 - 1 = 4	5 - 4 = 1	5 - 3 = 2	5 - 2 = 3					
<b>6</b>	6 - 5 = 1	6 - 1 = 5	6 - 4 = 2	6 - 2 = 4	6 - 3 = 3				
<b>7</b>	7 - 6 = 1	7 - 1 = 6	7 - 5 = 2	7 - 2 = 5	7 - 4 = 3	7 - 3 = 4			
<b>8</b>	8 - 7 = 1	8 - 1 = 7	8 - 6 = 2	8 - 2 = 6	8 - 5 = 3	8 - 3 = 5	8 - 4 = 4		
<b>9</b>	9 - 8 = 1	9 - 1 = 8	9 - 7 = 2	9 - 2 = 7	9 - 6 = 3	9 - 3 = 6	9 - 5 = 4	9 - 4 = 5	
<b>10</b>	10 - 9 = 1	10 - 1 = 9	10 - 8 = 2	10 - 2 = 8	10 - 7 = 3	10 - 3 = 7	10 - 6 = 4	10 - 4 = 6	10 - 5 = 5
<b>45 sight facts</b>									

# Resource

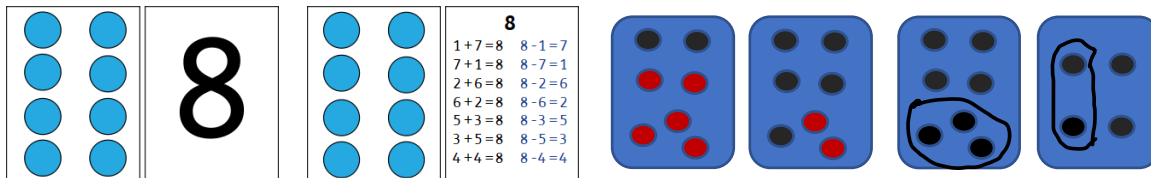
## 0 – 25 Specialist Teaching And Support Service

### Dot Patterns

Create dot patterns to develop subitising, numerosity and understanding of number concepts i.e. number bonds. Help children look for numbers inside numbers, identify subclusters and begin to develop skills in decomposition and recomposition.

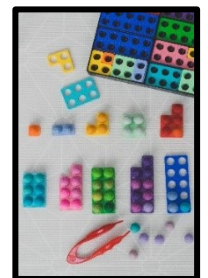
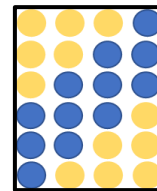


**Make cards both with and without numerals.** You can also use playing cards with the corner (numeral) cut off. Have a range of different arrays for the same number. Use beads and counters with the cards to explore number facts. You can laminate your cards and use a whiteboard pen to circle different clusters in numbers. Cards can be used for games such as pairs, lotto and snap as well as drills.



### Numicon, two coloured counters and tens frames

Use Numicon, two coloured counters and tens frames to explore number facts for each number.



### Cuisenaire Rods



Cuisenaire rods are such a versatile resource and brilliant for letting children explore number concepts to develop their understanding and consequently recall of number facts. The image to the right shows the number facts for 5.



Check out Mahesh Sharma's video on introducing a number using visual cluster cards and Cuisenaire rods.

<https://mathematicsforall.org/courses/introducing-a-number-using-visual-cluster-cards-and-cuisenaire-rods/>

