



# Year 1 – Knowledge Organiser – ADDITION AND SUBTRACTION WITHIN 20

## Key learning

describe what happens when we count on	
use tens frames and number lines to help with addition	
find number bonds to 20 using tens frames	
find number bonds to 20 and record them as number sentences	$2 + 18 = 20$
to use our number bonds to make 10 then add on the remaining ones	$7 + 6 = 13$ 
use counters to show a subtraction problem on a first, then, now grid	
show subtraction on tens frames and part whole models	
subtract practically using counters	
begin to partition 10 to help with subtraction	

## Key vocabulary

**partition 10**

**part whole model**

**number line**

**tens frame**

**number bonds to 20**

	$1 + 19$		$19 + 1$
	$2 + 18$		$18 + 2$
	$3 + 17$		$17 + 3$
	$4 + 16$		$16 + 4$
	$5 + 15$		$15 + 5$
	$6 + 14$		$14 + 6$
	$7 + 13$		$13 + 7$
	$8 + 12$		$12 + 8$
	$9 + 11$		$11 + 9$
	$10 + 10$		$10 + 10$

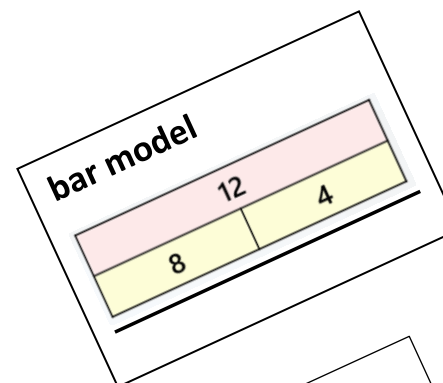


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## Key learning

partition 10 on a number line	
understand subtraction on part whole models	
find the <u>difference</u> using bar models	
explore addition and subtraction facts within the same family	$\begin{array}{l} 6 + 8 = 14 \\ 8 + 6 = 14 \\ 14 - 6 = 8 \\ 14 - 8 = 6 \end{array}$
use part whole models to find related number facts	$\begin{array}{l} 5 + 6 = 11 \\ 6 + 5 = 11 \\ 11 - 5 = 6 \\ 11 - 6 = 5 \end{array}$
use bar models to find related numbers facts	$\begin{array}{l} 8 + 4 = 12 \\ 4 + 8 = 12 \\ 12 - 8 = 4 \\ 12 - 4 = 8 \end{array}$
use resources to compare number sentences	
compare number sentences using <i>more than</i> , <i>less than</i> , <i>equal to</i> and symbols $<$ $>$ $=$	$6 + 9 < 19 - 3$ $\boxed{15} \quad \boxed{16}$

## Key vocabulary



inequality symbols  
less than, more than, equal to

addition  
 $12 + 6 = 18$

subtraction  
 $14 - 5 = 9$

### fact family

$$\begin{array}{l} 8 + 4 = 12 \\ 4 + 8 = 12 \\ 12 - 8 = 4 \\ 12 - 4 = 8 \end{array}$$