ADDITION & SUBTRACTION MENTAL MATH STRATEGIES

Counting On (for addition) +1, +2, +3	Put the big number in your head and count on. (i.e. for 6 + 2 think, "6.... 7, 8")
Count On (for subtraction)	Put the small number in your head and count how many it takes to get to the big number. (i.e. for 39 – 35 think, "35.... 36, 37, 38, 39)
Counting Back –1, –2, –3	Put the big number in your head and count back. (i.e. for 16 – 3 think, "16.... 15 ,14, 13")
Addition for Subtraction	Turn a subtraction equation into an addition equation when the subtrahend and minuend are nearby. (i.e. for 16 – 13 think, "13 + □ = 16")
Doubles	Double a number and you get a doubles fact! Doubles facts share the same addend. 0 + 0 1 + 1 2 + 2 3 + 3 4 + 4 5 + 5 6 + 6 7 + 7 8 + 8 9 + 9
Making Ten (Ten Friends)	Look at the first addend. Think, "how many more do I need to make ten?" 0 + 10 1 + 9 2 + 8 3 + 7 4 + 6 5 + 5
Doubles Plus One (Neighbours) (Near Doubles)	Doubles plus one facts are "next door neighbours" on the number line. For 6 + 7 think, "I know 6 + 6 = 12, so 6 + 7 is one more than 12, so 6 + 7 = 13". 0 + 1 1 + 2 2 + 3 3 + 4 4 + 5 5 + 6 6 + 7 7 + 8 8 + 9
Doubles Plus Two (Two-Doors Down)	Doubles plus two facts are "two doors down" on the number line. Just double the smaller number and add two more! (i.e. 5 + 7 = 5 + 5 + 2) 0 + 2 1 + 3 2 + 4 3 + 5 4 + 6 5 + 7 6 + 8 7 + 9 8 + 10
Plus Ten	When ten is added to a number, the tens-place digit increases by one. i.e. 2 + 10 = 12
Minus Ten	When ten is subtracted from a number, the tens-place digit decreases by one. i.e. 12 – 10 = 2
Plus Nine (Bridge to 10)	To add nine, add ten instead and jump back one. i.e. for 6 + 9 think, "6 + 10 = 16 and 16 – 1 = 15, so 6 + 9 = 15"
Minus Nine	To subtract nine, subtract ten instead and then add one. i.e. for 16 – 9 think, "16 – 10 = 6 and 6 + 1 = 7, so 16 – 9 = 7"

MULTIPLICATION

FACTS	STRATEGY
1	**It's Just That Number!** $1 \times 5 = 5$
2	**Double It!** $2 \times 6 \rightarrow 6 + 6 = 12$
3	**Double It and Add a Group!** $3 \times 7 \rightarrow 7 + 7 = 14 \rightarrow 14 + 7 = 21$
4	**Double, Double!** $4 \times 8 \rightarrow 8 + 8 = 16 \rightarrow 16 + 16 = 32$
5	**Count by 5's That Many Times!** $5 \times 7 \rightarrow 5, 10, 15, 20, 25, 30, 35$
6	**Multiply by 5 and Add a Group!** $6 \times 6 \rightarrow 5, 10, 15, 20, 25, 30 \rightarrow 30 + 6 = 36$
7	**Multiply by 5 and Add a Double!** $7 \times 4 \rightarrow 5, 10, 15, 20 \rightarrow 20 + 8 = 28$
8	**Double, Double, Double!** $8 \times 6 \rightarrow 6 + 6 = 12 \rightarrow 12 + 12 = 24 \rightarrow 24 + 24 = 48$
9	**Multiply by 10 and Subtract a Group!** $9 \times 6 \rightarrow 10 \times 6 = 60 \rightarrow 60 - 6 = 54$
10	**Count by 10's or Just Add a Zero!** $10 \times 4 \rightarrow 10, 20, 30, 40$
11	**Multiply by 10 and Add a Group!** $11 \times 6 \rightarrow 10 \times 6 = 60 \rightarrow 60 + 6 = 66$
12	**Multiply by 10 and Add a Double!** $12 \times 6 \rightarrow 10 \times 6 = 60 \rightarrow 60 + 12 = 72$