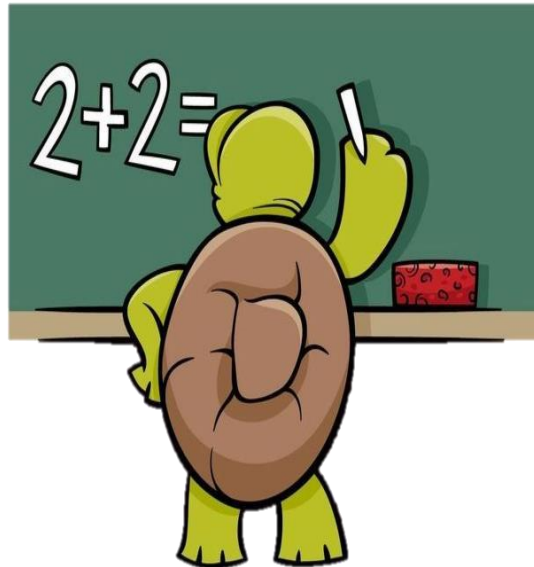


# ADDITION and SUBTRACTION

Year 2

## KNOWLEDGE ORGANISER

### Overview



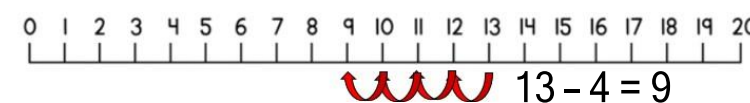
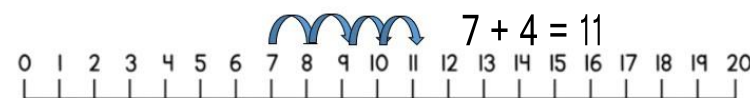
In our unit on addition and subtraction we learn:

- Add and subtract multiples of 100.
- Add and subtract three 1-digit numbers.
- Add and subtract three 2-digit numbers.
- Add and subtract 100s. -Spot the pattern.

Addition and Subtraction is useful learning because it is used in many areas of everyday life - e.g. shopping, cooking, or playing games. It also forms the basis for lots of other maths ideas.

### Add and Subtract 1s and 10s

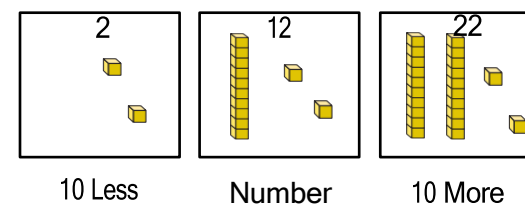
We can count on/ count back when adding or subtracting, but should increasingly know number bonds from memory.



Counting in 10s

|     |     |     |     |     |     |     |     |     |      |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 10  | 20  | 30  | 40  | 50  | 60  | 70  | 80  | 90  | 100  |
| 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200  |
| 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300  |
| 310 | 320 | 330 | 340 | 350 | 360 | 370 | 380 | 390 | 400  |
| 410 | 420 | 430 | 440 | 450 | 460 | 470 | 480 | 490 | 500  |
| 510 | 520 | 530 | 540 | 550 | 560 | 570 | 580 | 590 | 600  |
| 610 | 620 | 630 | 640 | 650 | 660 | 670 | 680 | 690 | 700  |
| 710 | 720 | 730 | 740 | 750 | 760 | 770 | 780 | 790 | 800  |
| 810 | 820 | 830 | 840 | 850 | 860 | 870 | 880 | 890 | 900  |
| 910 | 920 | 930 | 940 | 950 | 960 | 970 | 980 | 990 | 1000 |

10 More, 10 Less



When we add or subtract 10, the ones digit stays the same.

### Addition and Subtraction Bonds to 20

Number bonds are pairs of numbers that can be added and subtracted to make another number.

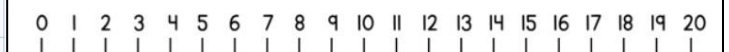
- We should learn number bonds up to 20.
- The images here show some number bonds within 20.

| 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 |



$$4 + 13 = 17 \quad 13 + 4 = 17$$

$$17 - 4 = 13 \quad 17 - 13 = 4$$



$$15 - 6 = 9 \quad 15 - 9 = 6$$

$$6 + 9 = 15 \quad 9 + 6 = 15$$

### Column Addition/ Subtraction

Column method helps us to complete more complex addition/ subtraction calculations.

Column Addition

$$\begin{array}{r} 25 \\ 05 \\ \hline 30 \\ 1 \end{array}$$

Column Subtraction

$$\begin{array}{r} 6 \cancel{7} 12 \\ 56 \\ \hline 16 \end{array}$$

### Key Vocabulary

Number   Count   Add   Subtract   Take Away   Difference   Plus   Column Method   Number Line   Number Bond   Inverse