# Year 2 Addition and Subtraction (2) Knowledge

## Star Vocabulary

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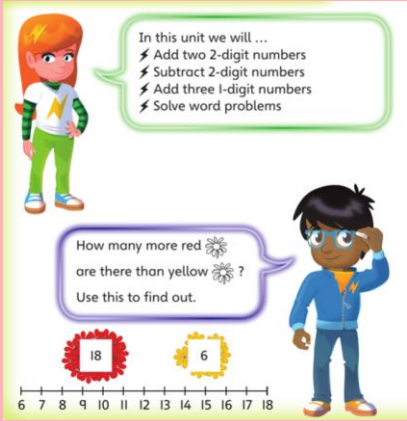
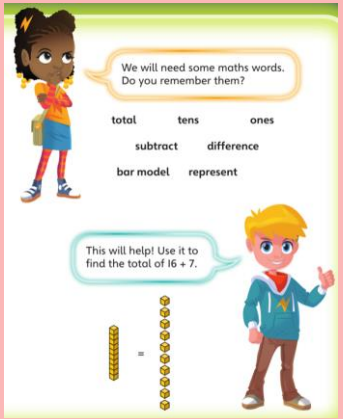
|---|---|
| **Addition** | it is the total sum of 2 or more numbers |
| **Subtraction** | the process of taking one number away from another |
| **Tens** | can be thought of as a bundle of ten ones — called a "ten." |
| **Ones** | 1 represents a single entity, a quantity or value of 1 |
| **Difference** | The result of subtracting one number from another |
| **Bar model** | pictorial representation of a number in the form of bars or boxes |
| **represent** | relationship that expresses similarities |

Represent and use number bonds and related subtraction facts (within 10)

Recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100.

**Place value** is the **value** of each digit in a number. For example, the 5 in 53 represents 5 tens ans 3 ones.




## Sentence Stems

How many bonds can I make if ____ is the whole?
Which calculation gives the largest/smallest answer?
What else can we use to represent_____?
If _____ is the whole and ____ is a part, what is the other part?

## Misconceptions: Why?

6 + 3 = 8,

Incorrect jump on a number line (forwards for subtraction, backwards for addition or more than one jump per number)

## Factual & Conceptual Fluency progression

- Addition and subtraction within 10.
- Addition and subtraction across 10.
- Secure and maintain fluency in addition and subtraction within and across 10, through continued practice.
- Recall the 10 and 5 multiplication tables, and corresponding division facts.
- Recall the 2, 4 and 8 multiplication tables, and corresponding division facts.
- Recall the 3, 6 and 9 multiplication tables, and corresponding division facts.
- Recall the 7-multiplication table, and corresponding division facts.
- Recall the 11 and 12 multiplication tables, and corresponding division facts.
- Secure and maintain fluency in all multiplication tables, and corresponding division facts, through continued practice.