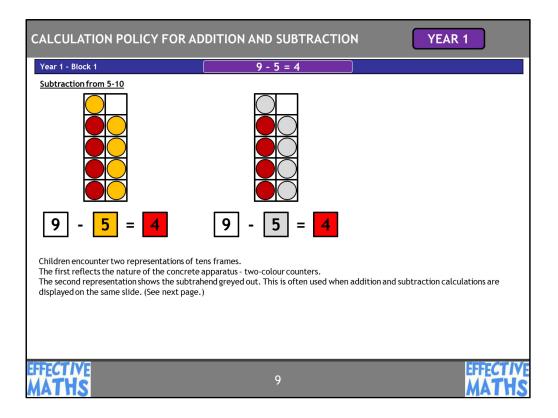


BLOCK 1

Addition facts for 5-10

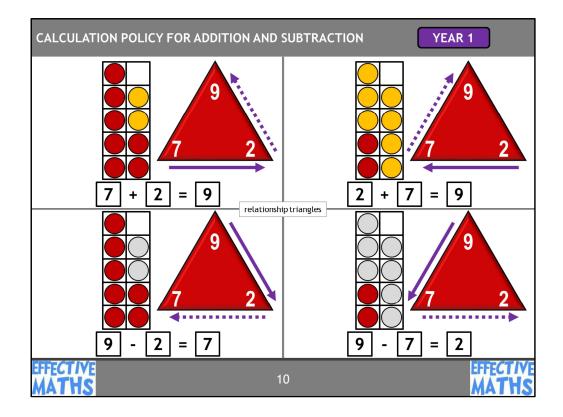
The core representation that supports children's learning of addition facts for 5-10 is the tens frame with two-colour counters. Children use their ability to subitise to articulate addition facts for numbers to 10. Teachers need to have two tens frames with two colour counters on display throughout Year 1 and children need access to their own tens frames and counters.

Other representations of facts for 5-10 are also encountered within the lessons to provide more opportunities for children to derive number facts. These include dominoes, bar models and part-whole models.



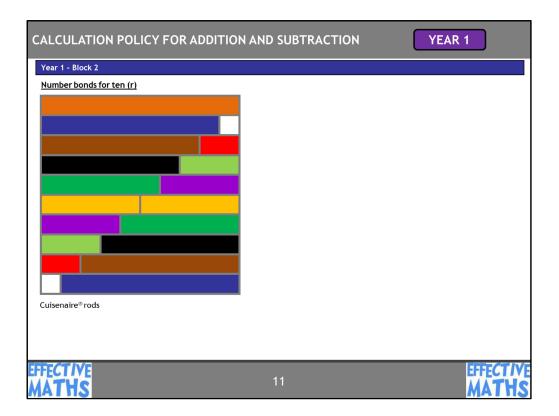
Subtraction from 5-10

The first two subtraction lessons focus on subtraction as reduction (taking away) and make use of pictorial representations to support this. From lesson three, as for learning about addition facts, the core representation that supports children's learning of subtraction facts for 5-10 is the tens frame with two-colour counters.



Subtraction from 5-10 (ctd)

The relationship triangle is introduced during the lesson on subtracting from 9.



BLOCK 2

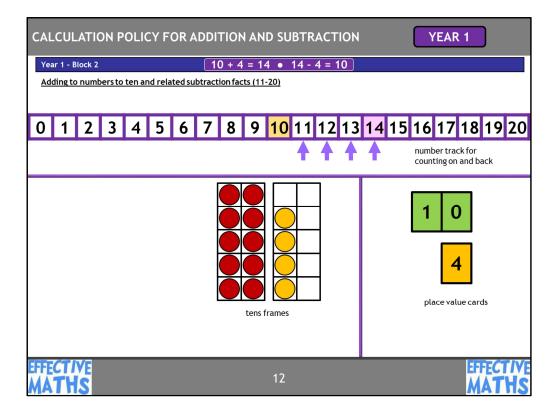
Number bonds for ten (r)

Cuisenaire® rods were encountered in some lessons in Block 1, but were not essential for successful learning. In this revision lesson they are integral to the lesson.

Knowing additive facts to 10 is a key goal for the end of Year 1 and ongoing practise is essential to achieve this.

It is suggested that ongoing number facts practice for 5-10 is supported by additional resources from this point, including Cuisenaire rods. During this practice children need to be taught to derive additive facts within 10 from previously memorised facts. For example, using knowledge of doubles to derive near doubles, eg: 5 + 4 =

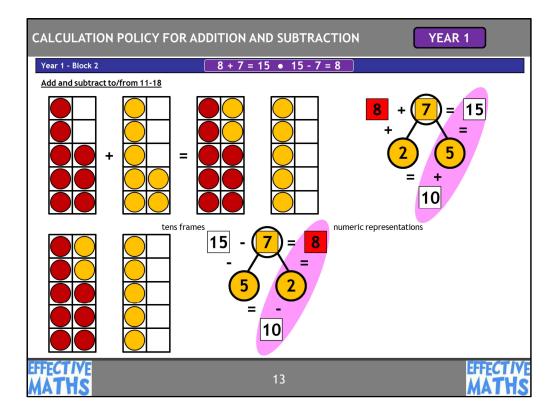
4 + 4 + 1 = 9



Adding to numbers to ten and related subtraction facts (11-20)

Children need secure recall of facts such as 10 + 1, 10 + 2 and their related subtraction facts (11 - 1, 12 - 2). This will support later work on additive facts that bridge ten using the making the next/previous ten method: 8 + 6 = 8 + 2 + 4 = 10 + 4 = 14

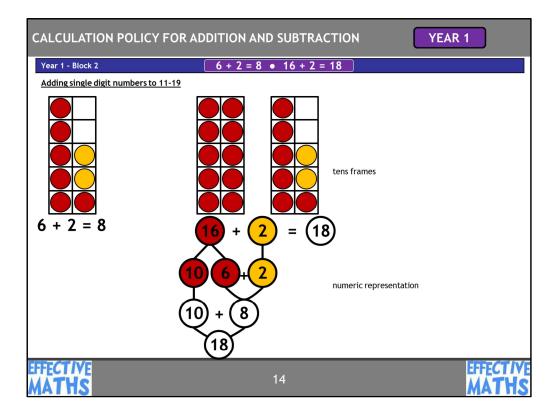
The lessons on adding to numbers to ten and related subtraction facts make extensive use of number tracks, tens frames and place value cards to support understanding.



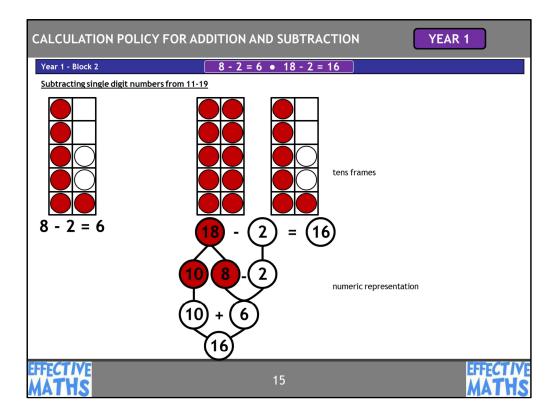
Add and subtract to/from 11-18

Children engage in a series of lessons about making 11, 12, 13 etc with numbers other than 10 and 1, 10 and 2, 10 and 3. The purpose is to lay the foundations of understanding that will support the ability to use the making the next/previous ten strategy in Year 2 and beyond.

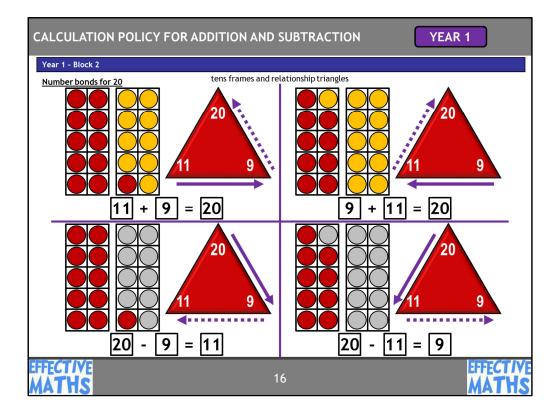
Whole lessons are spent exploring all the ways to make numbers from 11-15 (and the related subtraction facts). For example 15 = 9 + 6 = 8 + 7 = 7 + 8 = 6 + 9Tens frames support the understanding that 9 + 6 = 10 + 5. Children also encounter the numeric representation for this.



Adding single digit numbers to 11-19Using known facts to derive new facts, eg: 6 + 2 = 8 so 16 + 2 = 18. Also partitioning first addend into tens and ones then combining ones, eg: 16 + 2 = 10 + 6 + 2.



Subtracting single digit numbers from 11 to 19 Similar approach to adding single digit numbers to 11-19, eg: 6 - 2 = 4 so 16 - 2 = 14



Number bonds for 20

The core representations that support children's learning of facts for 20 (and related facts) is tens frames with two-colour counters and the relationship triangle.