

Heather Primary Calculation Policy

This calculation policy has been created to meet the expectations of the new national curriculum and is linked with the White Rose Scheme of Work and Calculation Policy. Most importantly, it is designed to meet the needs of our children at Heather Primary School.

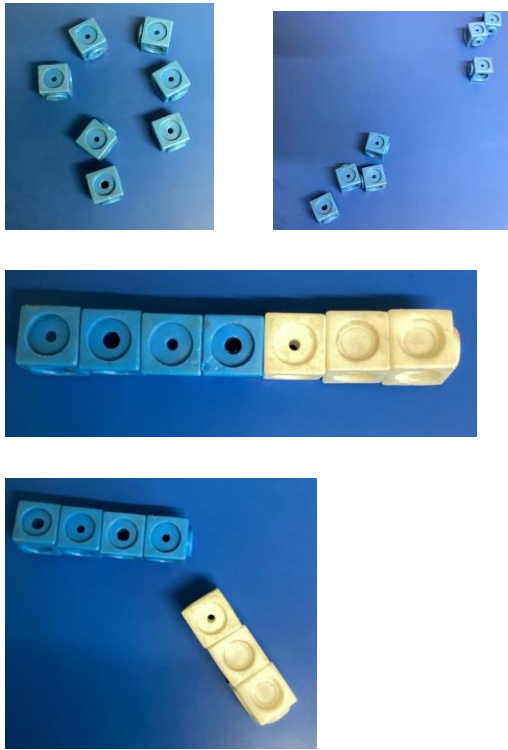
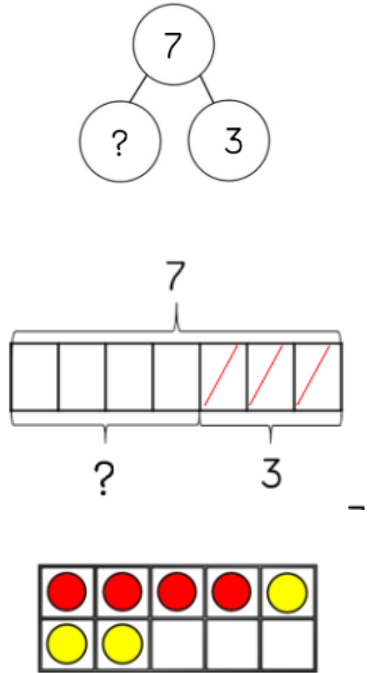
With our focus on 'Mastery in Maths' for all, we believe that the development in skill from concrete to pictorial and then abstract gives our children a deep understanding of the four operations.

Subtraction

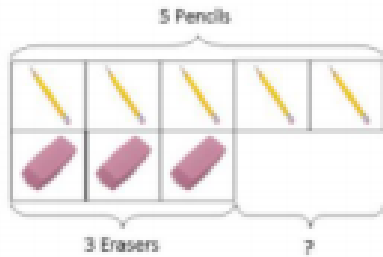
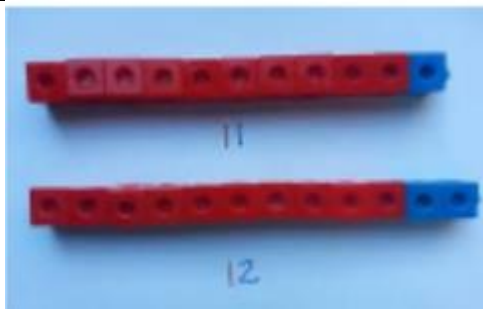
Progression in Subtraction Overview

EYFS	Y1	Y2	Y3	Y4	Y5	Y6
Explore how numbers within 10 change when you take some items away.	Subtract 1 digit numbers within 10.	Subtract 1 and 2 digit numbers within 100	Subtract numbers with up to 3 digits	Subtract numbers with up to 4 digits	Subtract numbers with more than 4 digits	
To compare numbers within ten.	Subtract 1 digit numbers within 20.	Subtract two 2 digit numbers within 100			Subtract with up to 3 decimal places	

Vocabulary: part, whole, subtract, minus, take away, fewer, decrease, difference, less than, digit, number, integer, exchange, equal to, same as, subtrahend, minuend, inverse

Objective	Concrete	Pictorial	Abstract
<p>Taking away ones</p>	 <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Subtract single digit numbers using cubes either in groups or as a bar.</p> </div>	 <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Build understanding of part part whole model to move into abstract. whole – part = part</p> </div>	$7 - 3 = 4$

Find the difference
(compare two items)



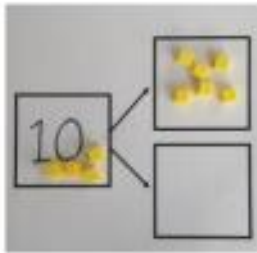
Use unifix cubes to create bar models and stack to compare the difference between amounts.



Use a bar model to compare the difference between amounts.

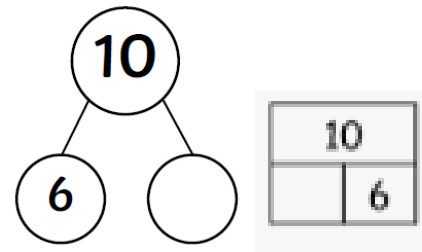
$$5 - 3 = 2$$

Using part part whole model to take away within 10



Reinforce understanding of part part whole model to move into abstract.

whole – part = part

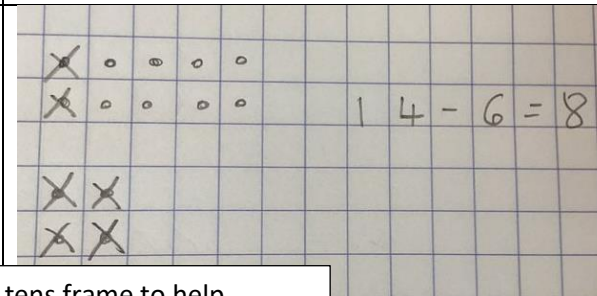


$$10 - 6 = 4$$

Subtract 1 and 2 digit numbers within 20 by making ten

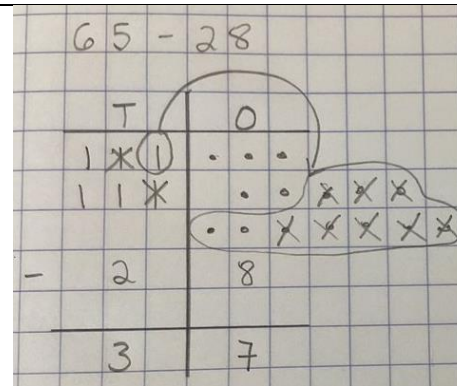
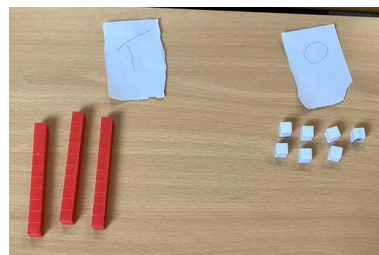
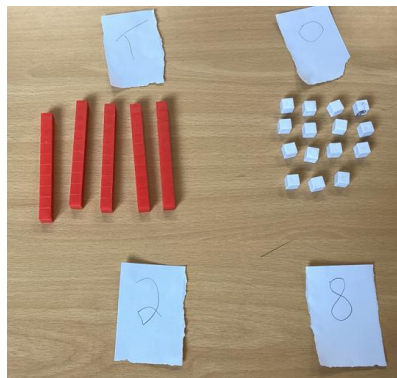
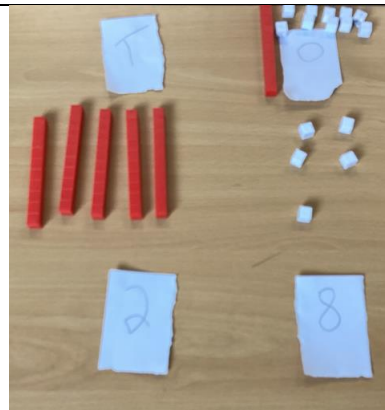


Use tens frame to help children partition the number they are subtracting to get to ten.



$$14 - 6 = 8$$

Subtracting with TO up to 100 (using base 10 - continue to develop understanding of partitioning and place value and use this to support subtraction. Begin with no exchanging)



Always remind children to start at the smallest place value and explain that this is in case we need to exchange.

$$\begin{array}{r} \overset{5}{\cancel{6}} \overset{1}{5} \\ - 28 \\ \hline 37 \end{array}$$

