

Introduction

Progression for Addition, Subtraction, Multiplication and Division.

These notes and illustrations show individual methods for stages of progression that build to a compact, efficient method (standard method) for all four operations.

The aim of this policy is:

- all children to use effective mental strategies when appropriate
- they choose an appropriate written method which they can use accurately and with confidence.

Time must be taken to build up to the most efficient method to ensure complete understanding at each stage.

As a guide, when children arrive at Penkridge/Brewood Middle School they should be:

Addition - starting stage 6

Subtraction - starting stage 5

Multiplication - starting stage 9

Division - starting stage 6

As a guide, by the end of year 6 children should be at the following stages:

Addition - stage 8

Subtraction - stage 8

Multiplication - stage 12

Division - stage 8

Children should not move onto the next stage if:

- 1) they are not ready i.e. lack of understanding of place value.
- 2) they are not confident with previous stages

If the children can complete these stages they will have a range of effective methods for mental and written calculations.

Maths Language

Children should experience the various maths language used within the four operations for mental and written questions.

Symbol	Words Used
+	<u>Addition</u> , Add, Sum, Plus, Increase, Total, more, together, and
-	<u>Subtraction</u> , Subtract, Minus, Less, Difference, Decrease, Take Away, Deduct, fewer, take from, reduce
×	<u>Multiplication</u> , Multiply, Product, Multiplied By, Times, Lots of, groups of, times tables
÷	<u>Division</u> , Divide, divided by, share, share equally, divisible by, divide into, group, Quotient (is the result of division)