



Ashleworth C of E and
Churcham Primary Schools
Calculations Policy



Approved by:	Teaching & Learning Committee
Date of review:	11 March 2020
Next review due by:	March 2022

This policy contains the key written methods of calculations that are to be taught at both schools. It has been written to ensure that there is consistency and progression across and throughout both schools.

The overall aim is to ensure that when children leave primary school they:

- Have a secure knowledge of number facts and a good understanding of the four operations;
- Make use of bar models, part whole models and other jottings to help record steps and part answers when using mental methods that generate more information than can be kept in their heads;
- Have an efficient, reliable, formal written method of calculation for each operation that they can apply with confidence when undertaking calculations that they cannot carry out mentally;
- Can apply mental methods and formal written methods of calculation when reasoning and problem solving;
- Can fluently recall related multiplication and division facts to 12×12 .

They can select an appropriate method by asking themselves:

“Can I do this in my head?”

“Can I do this in my head using diagrams or jottings?”

“Do I need to use a written method?”

Although the main focus of this policy is on formal written methods it is important to recognise that the ability to calculate mentally lies at the heart of maths as in every written method there is an element of mental processing.

Although each method will be taught in the year group specified, children should not be discouraged from using previously taught methods with which they are secure, while the new concepts are being embedded.

Examples of the formal written methods that we teach for each of the four operations are outlined on the following pages.

WHEN ARE CHILDREN READY FOR WRITTEN CALCULATIONS?

Addition and subtraction

- Do they know addition and subtraction facts to 20?
- Do they understand place value and can they partition numbers?
- Can they add three single digit numbers mentally?
- Can they add and subtract any pair of two digit numbers mentally?
- Can they explain their mental strategies orally and record them using informal jottings?
- Can they use practical equipment to show the written calculation?

Multiplication and division

- Do they know the 2, 3, 4, 5 and 10 time table?
- Do they know the result of multiplying by 0 and 1?
- Do they understand 0 as a place holder?
- Can they multiply two and three digit numbers by 10 and 100?
- Can they double and halve two digit numbers mentally?
- Can they use multiplication facts they know to derive mentally other multiplication facts that they do not know?
- Can they explain their mental strategies orally and record them using informal jottings?
- Can they use practical equipment to show the written calculation?

In all aspects of our work at Ashleworth C of E and Churcham Primary Schools, the safety and wellbeing of the children is paramount. We expect all staff and volunteers to share in this commitment.