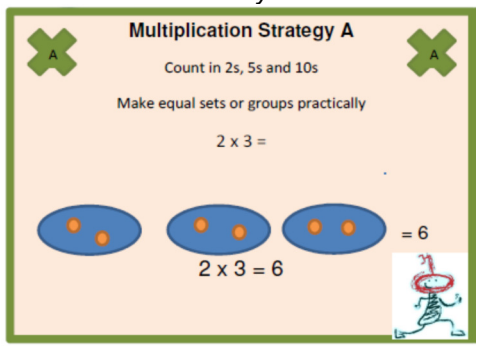
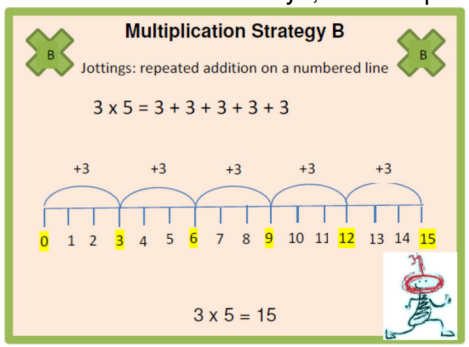
Strategies for the Written Method of Calculation for Multiplication

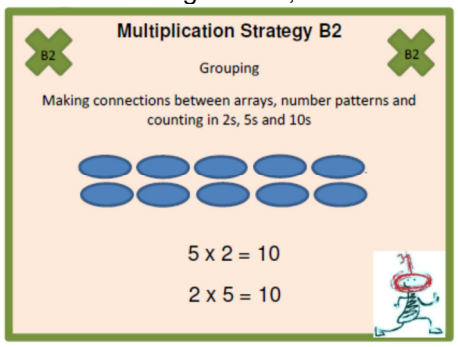
(Strategies indicate end of year expectations)

Year One

Statutory Guidance: solve one-step problems involving multiplication, by calculation the answer using concrete objects, pictorial representations and arrays with the support of the teacher. *Non-Statutory Guidance:* make connections between arrays, number patterns and counting in twos, fives and tens.

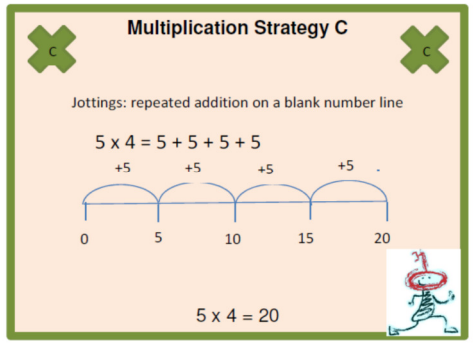


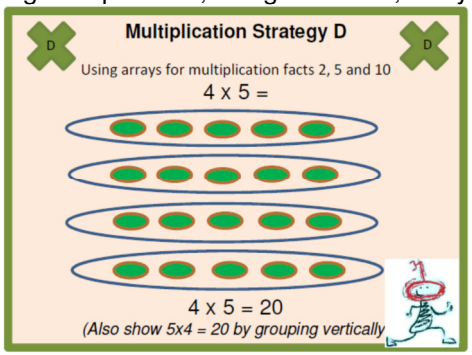


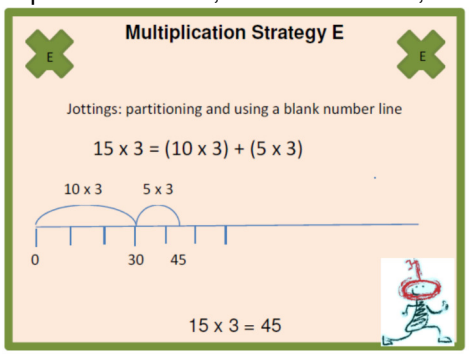


Year Two

Statutory Guidance: Solve problems involving multiplication, using materials, arrays, repeated addition, mental methods, and multiplication facts, including problems in contexts.

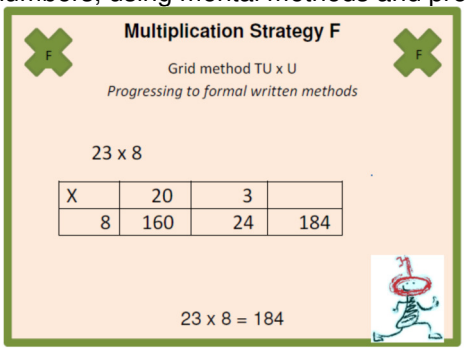


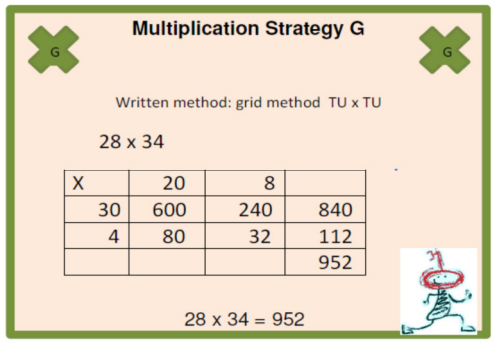




Year Three

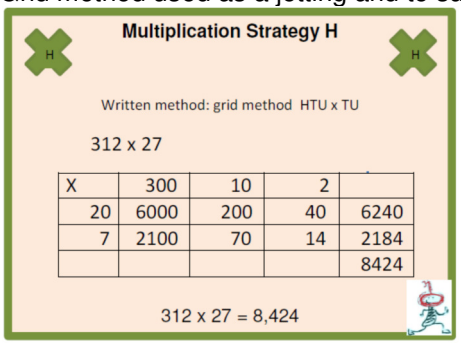
Statutory Guidance: Write and calculate mathematical statements for multiplication using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental methods and progressing to formal written methods. Multiplication facts include: 2, 3, 4, 5, 8 and 10.

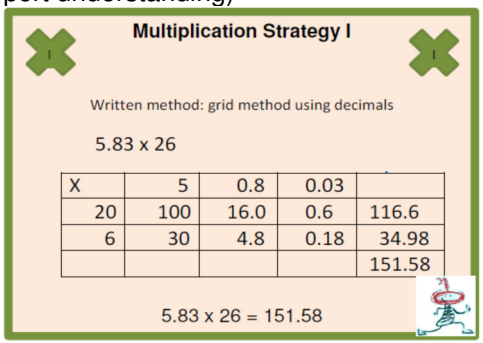


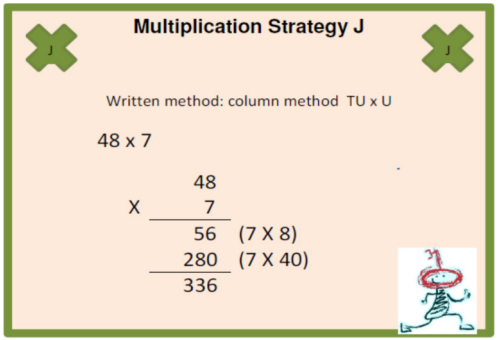


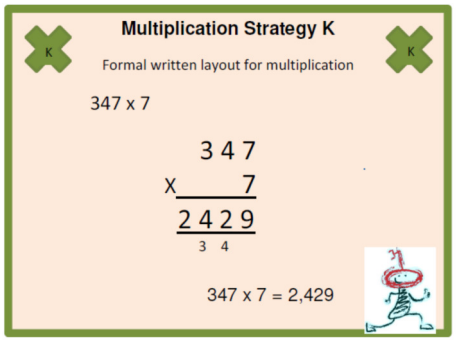
Year Four

Statutory Guidance: Multiply two-digit and three-digit numbers by a one digit number using the formal written layout. Multiplication facts up to 12x12.
(Grid method used as a jotting and to support understanding)



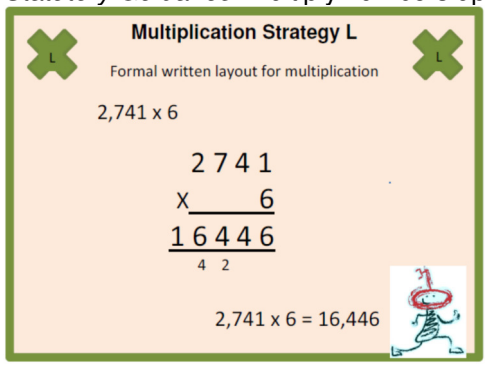


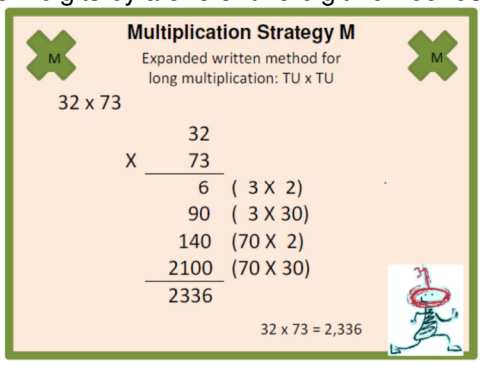


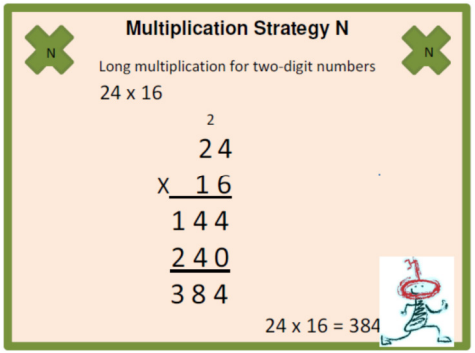


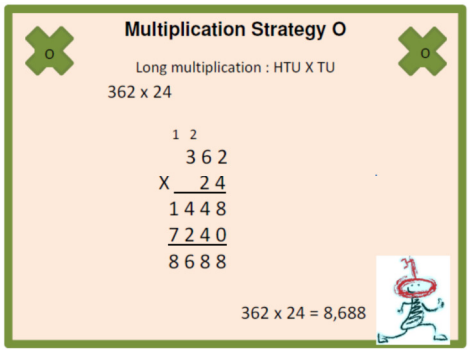
Year Five

Statutory Guidance: multiply numbers up to 4 digits by a one or two-digit number using the formal written method, including long multiplication for two-digit numbers.









Year Six

Statutory Guidance: multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.
From fractions section: multiply one-digit numbers with up to two decimal places by whole numbers.