

**R2P:** Check 4NF-4, Check 4NF-2, Check 4NF-3, 5NF-1, 5MD-1, 5MD-3, 5MD-4

**NC:**

Multiply and divide numbers mentally drawing upon known facts, including scaling

Multiply up to 4 digits by a one or two digit number using a formal written method, including long multiplication for 2 digit numbers.

Divide numbers up to 4 digits by a 1 digit number using the formal written method of short division and interpret the remainders appropriately.

Solve problems involving addition and subtraction, multiplication and division and a combination of these, including understanding of the equals sign.

**Focus:** Written methods for multiplication and division

**Time:** 2 weeks

**Times Tables** 4NF-1, 5NF-1

Consolidate and practice all multiplication and division facts to 12x12 – any order, missing numbers, fractions.

Use multiplication and division facts to derive associated facts.

Develop multiplicative reasoning - links between multiplication, division and fractions.

**Concept Sequence**

Multiply 4 digit numbers by a 1 digit number – use concrete manipulatives first. Focus on use of 0 as a place holder. Start without exchange.

Written x method with exchange – initially one exchange and build up.

Solve problems with multiplication - include measures.

Short Division – introduction. Show alongside familiar models. Start with 2d by 1d and 3d by 1d.

Divide 4 digits by 1 digit (short division) - use place value counters to partition and group before written method. Build up exchange.

Short Division with remainders - Not represented as a fraction, how as r2 for example (ignore context initially).

Efficient Division – consider most appropriate methods.

Division with measures.

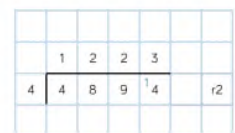
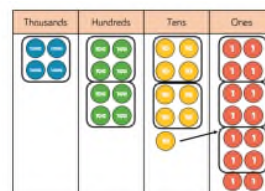
Solve problems using multiplication and division.

**Resources**

Counting Stick, Place Value Counters/Grid  
Gordons Maths Games, Mathletics,  
TTRockstars

BBC Super Movers

<https://www.bbc.co.uk/teach/supermovers/ks2-collection/zr4ky9g>



**Planning Links**

White Rose, Power Maths, Maths No Problem/Aspire  
White Rose Scheme of Work:

<https://assets.whiterosemaths.com/new-schemes/Year%205%20Spring%20Block%201%20SOL%20Multiplication%20and%20division%20B.pdf>

NCETM Teacher Guide and Representations:

<https://www.ncetm.org.uk/teaching-for-mastery/mastery-materials/primary-mastery-professional-development/multiplication-and-division/>

**Vocabulary**

Place Value/holder

Ones, Tens.....Hundred Thousands

Multiplication, multiply, multiplied by  
Multiple, factor

Groups of, times, product

Once, twice...ten times

Repeated addition, Short Division

Division, dividing, divide, divided by, divided into  
Left, left over, remainder

Grouping, sharing, share, share equally

Group in....., equal groups of, halving

Array, row, column

Number patterns, Multiplication table

Multiplication fact, division fact

Inverse