Crosby Primary School

Mathematics Medium Term Plan

Year 4 Autumn Term Unit 4 Multiplication and Division

Focus

Multiplication and Division

Time

4 weeks

4,200 ÷ 10

4,200 ÷ 100

420 ÷ 10

R2P: 4NF-1, 4NF-2, 4NF-3, 4MD-1, 4MD-2, 4MD-3

NC:

Count from 0 in multiples of 6, 7, 9, 25 and 1000.

Recall and use multiplication and division facts for multiplication tables to 12x12.

Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two digit numbers times one digit numbers using mental and progressing to formal written methods.

Solve problems involving multiplying and adding, including using the distributive law to multiply 2 digit numbers by one digit, integer scaling problems and harder correspondence problems such as an objects connected to m objects.

Concept Sequence

Recap 2x/5x/10x tables. Recap 2x/4x/8x tables.

Multiples of 3 and 3x table. Representations.

Multiply and Divide by 6 – use equal groups in pictorial and concrete methods to solve problems. Use strategies to find unkown facts. Make links with 3x and 5x tables.

6x table and division facts - relate to 3x table (doubling).

Multiply and Divide by 9 – relate to 3x/a0x tables in different contexts.

9x table and division facts – link to 3x/10x table to derive related facts.

3x 6x 9x tables. Mixed word problems.

Multiply and divide by 7 – count in 7s and use equal groups with concrete and pictorial methods to solve problems. Explore partition, commutativity and inverse relationships.

7x table and division facts – explore link sbetween tables and investigate how this supports mental strategies.

11x table and division facts. Link with 10x table. Children already know most of these – show links with commutativity.

12x table and division facts. Link with 10x and 2x tables. Know it is double 6x/double double 3x.

Multiply by 1 and 0 – use concrete equipment and pictorial representations.

Divide by 1 – Use concrete and pictorial representations. Demonstrate sharing and grouping using stem sentences.

Resources

Objects (counters, cubes), place value chart

100 Square, Number Lines, Counting stick

Gordons Maths Games, Mathletics, TTRockstars

BBC Super Movers

https://www.bbc.co.uk/teach/supermovers/ks2-collection/zr4ky9q

Working Wall – stem sentences

Planning Links

White Rose, Power Maths, Maths No Problem Text Books, Aspire Maths

White Rose Scheme of Work:

https://assets.whiterosemaths.com/new-schemes/Y4%20Autumn%20Block%204%20SOL%20Multiplication%20and%20division%20A.pdf

NCETM Teacher Guide and Representations:

https://www.ncetm.org.uk/classroom-resources/primm-2-13-calculation-multiplying-and-dividing-by-10-or-100/

https://www.ncetm.org.uk/classroom-resources/primm-2-08-times-tables-3-6-and-9-and-the-relationship-between-them/

https://www.ncetm.org.uk/classroom-resources/primm-2-11-times-tables-11-and-12/

Vocabulary

Multiplication, Multiply, Multiplied by, Multiple, Product, Times

Division, Dividing, Grouping, Sharing, Equal groups of

Group in tens, hundreds, sixes, sevens, nines

X, I like it so much I want X times

Doubling, Halving, Number patterns

Once, twice, three…. times

Repeated addition, Array, row, column

Multiplication table, Multiplication fact, Inverse

Times Tables 3NF-2, 4NF-1

9x table – multiples, missing numbers, division, fractions

Count in 7s