Year 4 Maths – Autumn 2

Counting

- Count in multiples of 3, 4, 6, 7, 8 and 9.

Hook for learning:

Nrich area and perimeter investigation

Non-negotiables:

- Recall multiplication facts from the previous year group
- Add using the column method (more than one exchange)
- Subtract using the column method (more than one exchange)

Fractions

Find hundredths as a fraction. Use fraction walls and fraction strips to identify equivalent fractions.

Find equivalent fractions. Look at the relationship between the numerator and the denominator in fractions.

Simplify fractions with the help of images. Identify and draw mixed numbers. Count up in fractions beyond 100.

Add fractions with the same denominator where the answer is greater than 1.

Subtract proper fractions from mixed numbers and from a whole number.

Apply understanding of adding and subtracting fractions to solve problems.

Calculate fractions of quantities. Calculate the whole given a fraction of an amount.

Solve multi-step fraction problems.

Learning Challenge links

LC – compare daylight hours in Antarctica and Eastern Europe

Multiplication and division

- Multiplying by multiples of 10 and 100.
  Dividing by multiples of 10 and 100.
- Multiplying by 0 and 1 and dividing by 1.
- Multiplying and dividing by 6 and the 6 times table
- Multiplying and dividing by 9 and the 9 times table
- Multiplying and dividing by 7 and the 7 times table
- 11 and 12 times table

Geometry - perimeter

- To understand the concept of km
- calculate the perimeter of a rectangle
- calculate the perimeter of a rectilinear shape in m and cm.
- To solve problems relating to perimeter

Exceeding Expectations

Challenge activities for each objective (power maths challenge, deepening understanding, white rose small steps)

Maths –Weekly

Week 1 : multiplication and division
Multiplying by multiples of 10 and 100. Dividing by multiples of 10 and 100. Multiplying by 0 and 1 and dividing by 1. Multiplying and dividing by 6 and the 6 times table

M Time (o'clock and half past- analogue) and times tables **3 and 6**
T times tables garage
W rock stars soundcheck
Th multiply by 1 and 0 + times tables
F rock stars studio

Week 2: multiplication and division
Multiplying and dividing by 9 and the 9 times table. Multiplying and dividing by 7 and the 7 times table. 11 and 12 times table To understand the concept of km.

M rock half past/quarter past + times tables **4 and 7**
T time –times tables garage
W rock stars soundcheck
Th Multiply 3 single digit numbers together using the rules of arithmetic + times tables
F rock stars studio

Week 3: geometry and fractions
and calculate the perimeter of a rectangle and a rectilinear shape in m and cm. Find the perimeter of rectilinear shapes where not all measurements are given. To solve problems relating to perimeter
Find hundredths as a fraction.

M convert between hours and minutes + times tables **6 and 11**
T time –times tables garage
W rock stars soundcheck
Th multiply by multiples of 10/100 + times tables
F rock stars studio

Week 4: fractions
Use fraction walls and fraction strips to identify equivalent fractions. Find equivalent fractions. Look at the relationship between the numerator and the denominator in fractions. Simplify fractions with the help of images.

M time to 5 minutes + times tables **8 and 12**
T times tables garage
W rock stars soundcheck
Th divide by multiples of 10/100 + times tables
F rock stars studio

Week 5: assessment week

Assessment week
Times tables **3, 4, 6**

Week 6 and 7: fractions and place value
Identify and draw mixed numbers.
Count up in fractions beyond 100.
Find 1000 more or less

M Time (analogue to digital) + times tables **7, 8, 9**
T times tables garage
W rock stars soundcheck
Th maths no problem p157 multiplication + times tables
F rock stars studio