

# Year 4 Maths – Spring 1

## Counting

- Recall the 2, 3, 4, 5, 6, 8, and 10 times tables and the derived division facts

## Hook for learning:

Nrich area and perimeter investigation

## Non-negotiables:

- To recognise place value of any 4-digit number.
- Can order numbers to 1000
- Add and subtract fractions with the same denominator
- Find equivalent fractions with using representations
- Recall multiplication facts for 2, 3, 4, 5, 9, 10 times tables

## 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

Create a time graph to show the temperature in a region of Eastern Europe

## Number and Place value

- Recognise the place value of each digit in a four digit number.
- Order and compare numbers beyond 1000
- Can represent numbers beyond 1000 in different ways including manipulatives and measuring equipment

## Geometry - Area

- Understand the concept of area of 2d shapes
- Use squares to measure the area of squares and rectangles
- Calculate the area of rectilinear shapes by counting squares
- Make shapes with given areas
- Compare shapes according to their areas

## Exceeding Expectations

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

# Maths –Weekly

## Week 1 : 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 in fractions beyond 100.

## Week 2: Place Value

Find 1000 more or less. Compare 4 digit numbers using concrete equipment and pictorial representations.  
Compare and order 4 digit numbers focusing on the value of each digit.

## Week 3: Place Value

Count forwards and backwards in 25s.  
Understand negative number, counting back through zero.  
Reasoning and problem solving – negative numbers in context.

## Week 4: Fractions (Assessment week)

Add fractions with the same denominator where the answer is greater than 1.  
Subtract proper fractions from mixed numbers and from a whole number.

## Week 5: Fractions

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

## Week 6 : Area

Introduce the concept of the area of a 2D shape.  
Use squares to measure area.

M **round to the nearest 10, 100 and 1000** + times tables  
T rock stars garage + addition and subtraction – 4 digit numbers  
W rock stars soundcheck  
Th **round to the nearest 10, 100 and 1000** + times tables  
F rockstars studio + addition and subtraction – 4 digit numbers

M **multiply by multiples of 10 and 100** + times tables  
T rock stars garage + multiplication – 3 digits by 1 digit grid method  
W rock stars soundcheck  
Th **multiply by multiples of 10 and 100** + times tables  
F rock stars studio + multiplication – 3 digits by 1 digit grid method

M **divide by multiples of 10 and 100** + times tables  
T rock stars garage + addition with decimals  
W rock stars soundcheck  
Th **divide by multiples of 10 and 100** + times tables  
F rock stars studio + addition with decimals

## Assessment week

Tu rock stars garage  
W rock stars soundcheck  
F rock stars studio

M **addition and subtraction including negative numbers** + times tables  
T rock stars garage + 1000 more/1000 less  
W rock stars soundcheck  
Th **addition and subtraction including negative numbers** + times tables  
F rock stars studio + 1000 more/1000 less

M **add and subtract fractions with the same denominator** + times tables  
T rock stars garage + count backwards through zero into negative numbers  
W rock stars soundcheck  
Th **add and subtract fractions with the same denominator** + times tables  
F rock stars studio + count backwards through zero into negative numbers