

# Medium Term Maths – Spring 2 – Year 5

## Counting

Weekly times table counting  
Counting in fractions

## Hook for learning:

Links to history and science learning challenges

## Non-negotiables:

Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.  
Calculate the area of rectangles (including squares), and including using standard units, square centimetres(cm<sup>2</sup>) and square metres (m<sup>2</sup>)  
Add and subtract fractions with the same denominator and denominators that are multiples of the same number.

## Area and perimeter

Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.  
Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres(cm<sup>2</sup>) and square metres (m<sup>2</sup>) and estimate the area of irregular shapes.  
Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates

## Learning Challenge links

Plot dates accurately on a timeline using 4-digit numbers.  
Graph to show temperature

## Converting measures

Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.  
Solve problems involving converting between units of time.  
Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.

## Meeting Expectations

Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.  
Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres(cm<sup>2</sup>) and square metres (m<sup>2</sup>) and estimate the area of irregular shapes.  
Add and subtract fractions with the same denominator and denominators that are multiples of the same number.  
Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements  $> 1$  as a mixed number [for example,  $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$ ].  
Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.

## Fractions

Add and subtract fractions with the same denominator and denominators that are multiples of the same number.  
Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements  $> 1$  as a mixed number [for example,  $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$ ].

## Exceeding Expectation

Solve problems using knowledge of improper and mixed number fractions  
Calculate perimeter of more complex rectilinear shapes  
Convert between unusual combinations of measurement e.g. how tall is a 6ft person in millimetres

# Maths –Weekly – Year 5

## Week 1: Perimeter and area

Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.

Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres(cm<sup>2</sup>) and square metres (m<sup>2</sup>) and estimate the area of irregular shapes.

Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates

M Squared and cubed numbers  
T Squared and cubed numbers  
Th Squared and cubed numbers  
Fr Times tables

## Week 2: Fractions

Add and subtract fractions with the same denominator and denominators that are multiples of the same number.

Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements  $> 1$  as a mixed number [for example,  $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$ ].

M Multiplying and dividing by 10, 100, 1000  
T Multiplying and dividing by 10, 100, 1000  
Th Multiplying and dividing by 10, 100, 1000  
Fr Times tables

## Week 3: Fractions-

Add and subtract fractions with the same denominator and denominators that are multiples of the same number.

Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements  $> 1$  as a mixed number [for example,  $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$ ].

M Division with remainders  
T Division with remainders  
Th Division with remainders  
Fr Times tables

## Week 4: Robinwood

Recap adding and subtraction of fractions in arithmetic sessions

M Adding and subtracting fractions  
T Adding and subtracting fractions  
Th Adding and subtracting fractions  
Fr Times tables

## Week 5: Fractions- Assessment Week

Add and subtract fractions with the same denominator and denominators that are multiples of the same number.

Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements  $> 1$  as a mixed number [for example,  $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$ ].

M Long multiplication  
T Long multiplication  
Th Long multiplication  
Fr- Times tables

## Week 6: Converting measures

Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.

Solve problems involving converting between units of time.

Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.

M Converting metric measures  
T Converting metric measures  
Th Converting metric measures  
F Times tables