# Medium Term Maths – Autumn 2 – Year 5

## Counting

Weekly times table counting

Counting in tens, hundreds, thousands and ten thousands for rounding

## Fractions

Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths

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 1/5 ].

Compare and order fractions whose denominators are all multiples of the same number.

## Geometry

Identify: – angles at a point and one whole turn (total 360°) – angles at a point on a straight line and 1 2 a turn (total 180°) – other multiples of 90°.

Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.

Draw given angles, and measure them in degrees (°).

## Measurement- Metric units

Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).

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

## Hook for learning:

Links to history and science learning challenges

## Learning Challenge links

Plot dates accurately on a timeline using 4-digit numbers.

## Multiplication and division

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

Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000.

## Statistics

Complete, read and interpret information in tables, including timetables.

Solve comparison, sum and difference problems using information presented in a line graph.

## Non-negotiables:

Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000.

Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths

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 1/5 ].

## Meeting Expectations

Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).

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

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 1/5 ].

## Exceeding Expectation

Explain how fractions have been converted.

Explain why 'just add a zero' doesn't work when multiplying decimal numbers

# Maths –Weekly – Year 5

**Week 1: Multiplication and division**

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

Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000.

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

**Week 2: Fractions**

Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths

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 1/5 ].

Compare and order fractions whose denominators are all multiples of the same number.

- M Fractions on a number line
- T Fractions on a number line
- Th Fractions on a number line
- Fr Times tables

**Week 3: Fractions**

Compare and order fractions whose denominators are all 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 1/5 ].

- M How many more/difference word problems
- T  How many more/difference word problems
- Th How many more/difference word problems
- F Times tables

**Week 4  and 5 Geometry (assessment week)**

Identify: – angles at a point and one whole turn (total 360°) – angles at a point on a straight line and 1/2 a turn (total 180°) – other multiples of 90°.

Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.

Draw given angles, and measure them in degrees (°).

- M Time problems (months, days, years)
- T Time problems (months, days, years)
- Th Time problems (months, days, years)
- Fr Times tables

**Week 6: Measurement- Metric units**

Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).

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

- M Converting measures
- T Converting measures
- Th Converting measures
- Fr- Times tables

**Week 7: Statistics- Graphs and tables**

Complete, read and interpret information in tables, including timetables.

Solve comparison, sum and difference problems using information presented in a line graph.

- M Negative numbers
- T Negative numbers
- Th Negative numbers
- Fr Times tables