

Medium Term Maths – Autumn 2 – Year 5

Counting

Weekly times table counting
Counting in tens, hundreds, thousands and ten thousands for rounding

Hook for learning:

Links to history and science learning challenges

Non-negotiables:

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, $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$].

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, $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$].
Compare and order fractions whose denominators are all multiples of the same number.

Learning Challenge links

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

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, $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$].

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 ($^\circ$).

PIXL Transition Therapy objectives

Can add and subtract increasingly large numbers mentally

Can use knowledge of inverse operations to check answers to addition and subtraction calculations

Can solve two-step problems involving addition and subtraction, deciding which operation to use

Can multiply and divide mentally using known facts

Can recall and use multiplication and division facts for all the times table

Can begin to divide three digit by one digit numbers with exact answers using short division

Exceeding Expectation

Explain how fractions have been converted.

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.

Statistics

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

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

Maths –Weekly – Year 5

Week 1: 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 ($^\circ$).

Arithmetic:

PIXL Mental addition therapy

Daily times table practice

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, $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$].

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

Arithmetic:

PIXL Inverse operations therapy

Daily times table practice

Week 3: Fractions (assessment week)

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, $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$].

Arithmetic:

PIXL Two step problems therapy

Daily times table practice

Week 4 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, $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$].

Arithmetic:

PIXL Mental multiplication therapy

Daily times table practice

Week 5: 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.

Arithmetic:

PIXL Multiplication and division facts therapy

Daily times table practice

Week 6: 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.

Arithmetic:

PIXL Short division therapy

Daily times table practice