

Medium Term Maths – Summer 1 – Year 5

Counting

Weekly times table counting (including derived division facts)
Counting in tenths, hundredths and thousandths

Hook for learning:

Links to geography and science learning challenges

Non-negotiables:

Read and write decimal numbers as fractions [for example, $0.71 = 71/100$]
Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place
Read, write, order and compare numbers with up to 3 decimal places
Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per 100', and write percentages as a fraction with denominator 100, and as a decimal fraction
Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles

Decimals and percentages

Read and write decimal numbers as fractions [for example, $0.71 = 71/100$]
Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place
Read, write, order and compare numbers with up to 3 decimal places
Solve problems involving number up to 3 decimal places
Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per 100', and write percentages as a fraction with denominator 100, and as a decimal fraction
Solve problems which require knowing percentage and decimal equivalents of $1/2$, $1/4$, $1/5$, $2/5$, $4/5$ and those fractions with a denominator of a multiple of 10 or 25
Practise adding and subtracting decimals, including a mix of whole numbers and decimals, decimals with different numbers of decimal places, and complements of 1 (for example, $0.83 + 0.17 = 1$).

Learning Challenge links

Interpret information in graphs to analyse population growth

Exceeding Expectations

Compare calculations laid out correctly and incorrectly. What is the difference between the correct and incorrect answer? Why?

Ask increasingly difficult missing number questions. Give children a total and ask them to find the different ways they can make the total

Meeting Expectations

Use a place value grid alongside the column addition or subtraction so that children can link the concrete and abstract representations.

Objectives to recap

Multiplication and division facts for all times tables up to 12×12
Recognise and use factors, multiples and prime numbers
Recognise and use square and cube numbers
Count forwards and backwards and calculate using negative numbers

Properties of shape

Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles
Draw given angles, and measure them in degrees ($^{\circ}$)

Maths –Weekly – Year 5

Week 1 (3 days): Thousandths

Read and write decimal numbers as fractions [for example, $0.71 = 71/100$]
Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents

Daily tough ten arithmetic, flashback 4 and Rising Stars Arithmetic
Mental starter- Square numbers

Week 2: Decimals and percentages

Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place
Read, write, order and compare numbers with up to 3 decimal places
Solve problems involving number up to 3 decimal places
Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per 100', and write percentages as a fraction with denominator 100, and as a decimal fraction
Solve problems which require knowing percentage and decimal equivalents of $1/2$, $1/4$, $1/5$, $2/5$, $4/5$ and those fractions with a denominator of a multiple of 10 or 25

Daily tough ten arithmetic, flashback 4 and Rising Stars Arithmetic
Mental starter- Cube numbers

Week 3: Adding and subtracting decimals within 1 whole

Practise adding and subtracting decimals, including a mix of whole numbers and decimals, decimals with different numbers of decimal places, and complements of 1 (for example, $0.83 + 0.17 = 1$).

Daily tough ten arithmetic, flashback 4 and Rising Stars Arithmetic
Mental starter- Factors

Week 4: Adding and subtracting decimals with different number of decimal places

Practise adding and subtracting decimals, including a mix of whole numbers and decimals, decimals with different numbers of decimal places, and complements of 1 (for example, $0.83 + 0.17 = 1$).

Daily tough ten arithmetic, flashback 4 and Rising Stars Arithmetic
Mental starter- Prime numbers

Week 5: Multiplying and dividing decimals

Read, write, order and compare numbers with up to 3 decimal places
Read and write decimal numbers as fractions [for example, $0.71 = 71/100$]
Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
Solve problems involving number up to 3 decimal places

Daily tough ten arithmetic, flashback 4 and Rising Stars Arithmetic
Mental starter- Multiples

Week 6: Identify and measure angles

Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles
Draw given angles, and measure them in degrees (°)

Daily tough ten arithmetic, flashback 4 and Rising Stars Arithmetic
Mental starter- Negative numbers