

Mastery Five Unit Overview: Summer Term 2

Use opportunities as part of the daily routine to tell the time.

At some point in each day, not necessarily the maths lesson, addition and subtraction facts (number bonds to 1, 10 and 100) and multiplication and division facts for the 2 to 12 times tables should be rehearsed following guidance provided.

Use knowledge of place value and multiplication facts to derive related multiplication and division facts.

Recall key conversions of time including 60 seconds = 1 minute, 60 minutes = 1 hour, 24 hours = 1 day and 7 days = 1 week and vice versa. Recall key conversions of distance including 10mm = 1cm, 100cm = 1m, 1000m = 1km and vice versa 1000g = 1kg and vice versa and volume/capacity 1000ml = 1 litre and vice versa.

Summer 2 Unit 25 (Week 1): Division

Lesson	Starter	Lesson Focus
1	Recall and use multiplication facts up to 12×12 and related division facts	Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context
2	Use knowledge of place value and multiplication facts to divide related larger numbers	Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context Estimate division by rounding to the nearest multiple of 10, 100 or 1,000 of the divisor and using related facts
3	Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000	Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders as fractions
4	Identify: - angles at a point and one whole turn (total 360°) - angles at a point on a straight line and half a turn (total 180°) - other multiples of 90°	Divide a three-digit number by a one-digit number using a partitioning strategy
5	Read, write and convert time between analogue and digital 12 and 24-hour clocks	Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method)

Summer 2 Unit 26 (Week 2): Fractions

Lesson	Starter	Lesson Focus
1	Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers	Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths

2	Count forwards and backwards in decimal thousandths (0.001) including where ones boundaries are crossed	Compare and order fractions whose denominators are all multiples of the same number (including on a number line)
3	Identify and describe 2-D shapes (sides, parallel and perpendicular sides, vertices, angles and symmetry)	Recognise mixed numbers and improper fractions and convert from one form to the other
4	Add and subtract fractions with denominators that are the same	Use concrete materials or pictorial representations to multiply proper fractions by whole numbers where the answer is less than 1 Use concrete materials or pictorial representations to multiply proper fractions by whole numbers where the answer is greater than 1
5	Identify, represent and estimate numbers up to 100,000 on a number line where the starting point is a number other than 0	Use partitioning to multiply mixed numbers by whole numbers where the fractional part of the answer is less than 1 Use partitioning to multiply mixed numbers by whole numbers where the fractional part of the answer is greater than 1

Summer 2 Unit 27 (Week 3): Percentages		
Lesson	Starter	Lesson Focus
1	Recognise and write decimal equivalents of any number of fractional hundredths	Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal
2	Use partitioning to double or halve any number, including decimals to two decimal places	For halves, quarters, fifths and tenths give the equivalent percentage and vice versa Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{3}{5}$, $\frac{4}{5}$ and fractions with a denominator of a multiple of 10 or 25
3	Derive and use addition and subtraction facts for 1 (with decimal numbers to two decimal places)	For fractions with a denominator of a multiple of 10 or 25, give the equivalent percentage and vice versa Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{3}{5}$, $\frac{4}{5}$ and fractions with a denominator of a multiple of 10 or 25
4	Order more than two fractions whose denominators are all multiples of the same number (only where the numerator allows a conversion to the common denominator)	Find percentages of amounts where they are equivalent to the fractions $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{3}{5}$, $\frac{4}{5}$ and fractions with a denominator of a multiple of 10 or 25 Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{3}{5}$, $\frac{4}{5}$ and fractions with a denominator of a multiple of 10 or 25
5	Write statements > 1 as a mixed number	Solve problems involving fractions and percentages

Summer 2 Unit 28 (Week 4): Statistics		
Lesson	Starter	Lesson Focus
1	Add fractions with denominators that are the same and multiples of the same number	Complete and interpret information in a variety of sorting diagrams (including those used to sort properties of numbers and shapes)
2	Subtract fractions with denominators that are the same and multiples of the same number	Complete, read and interpret information in timetables Continue to read, write and convert time between analogue and digital 12 and 24-hour clocks
3	Round any number up to 1,000,000 to the nearest 10, 100, 1,000 or 10,000	Complete, read and interpret information in tables
4	Find 0.01, 0.1, 1, 10, 100, 1000 and other powers of 10 more or less than a given number	Complete, read and interpret information in tables Solve comparison, sum and difference problems using information presented in all types of graph including a line graph
5	Identify and describe 3-D shapes (sides, parallel and perpendicular sides, vertices, angles and symmetry)	Calculate and interpret the mode, median and range

Summer 2 Unit 29 (Week 5): Measurement		
Lesson	Starter	Lesson Focus
1	Multiply/divide whole numbers and decimals by 10, 100 and 1,000	Use, read and write standard units of mass Solve problems involving decimals to three places (converting between units of metric measure)
2	Use knowledge of place value and multiplication facts to divide related decimal numbers where the dividend is scaled down	Use, read and write standard units of length Solve problems involving decimals to three places (converting between units of metric measure)
3	Use knowledge of place value and multiplication facts to divide related decimal numbers where the dividend and divisor are scaled down	Use all four operations to solve problems involving measure using decimal notation, including scaling
4	Choose an appropriate strategy to solve addition and subtraction calculations based upon the numbers involved	Calculate and compare the area of rectangle, use standard units square centimetres (cm ²) and square metres (m ²)
5	Choose an appropriate strategy to solve multiplication and division calculations based upon the numbers involved	Estimate (and calculate) volume ((e.g., using 1 cm ³ blocks to build cuboids (including cubes)) and capacity (e.g. using water)

Summer 2 (Week 6): Assess and Review		
Lesson	Starter	Lesson Focus
1	Use Starters this week to revisit and rehearse any previous starters that the children have found difficult	During this week, administer the end of term Arithmetic and Reasoning Tests. Any other time this week should be spent revisiting and rehearsing any aspects from the term that children have found difficult.
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