

The Accelerated Maths™ United Kingdom Library scope and sequence is based on extensive mathematics and standards research and consultation from mathematics educators, mathematicians, and university researchers. You are sure to find objectives that reinforce the skills you are teaching, regardless of what instructional materials you use. Accelerated Maths makes it easy to select and organise objectives to suit your textbook and your own teaching approach. This Accelerated Maths UK library provides the following scope and sequence of objectives.

### **AM UK Year 3 Library**

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- Write numbers in partitioned form, given usual form
- Write numbers in usual form, given partitioned form
- Identify place value in 2- to 4-digit whole numbers
- Compare whole numbers
- Identify numbers which lie between two given numbers
- Order whole numbers
- Write words as figures and figures as words (numbers to 1000)
- Know addition can be done in any order
- Count on or back in hundreds
- Recognise multiples
- Find 100 more/100 less than a number
- Find 10 more/10 less than a number
- Add 3-4 whole numbers, no regroup
- Add 3-4 whole numbers, regroup
- Identify three-dimensional figures
- Count faces, edges, vertices
- Identify faces of solids
- Identify simple components of composite shapes
- Count on or back in fours
- Count on in steps of 3, 4 or 5
- Multiply by 3
- Multiply by 4
- Multiply by 2
- Multiply by 5
- Multiply by 10
- Know division facts
- Determine corresponding multiplication and division facts
- Divide a whole by a 1-digit whole, remainders
- Multiply in any order
- WP: Solve problems with metric units
- Find perimeter of simple shapes
- WP: Make a table
- Position whole numbers to 100 on a number line
- Count with number blocks
- Recognise quarter and half turns
- Classify angles
- Compare simple fractions
- Model and name fractions as part of a whole
- Recognise fractions on a number line
- Model and name fractions as part of a set
- Name unit fractions of shapes and sets
- Identify correct time: hour and minute
- Identify correct time: quarter to, quarter, and half past
- Add 2 whole numbers, no regroup (1-3 digits)
- Add 2 whole numbers, regroup (2-3 digits)
- Subtract whole numbers, no regroup (2-3 digits)
- Recognise addition and subtraction as opposites
- Determine corresponding addition and subtraction facts



- Check with an inverse operation
- Check answers by changing order or using other calculation
- Recognise equivalent fractions
- Measure metric mass
- Interpret pictograms
- Read bar charts
- Relate units of time
- WP: Add and subtract whole numbers
- WP: Subtract whole numbers, regroup (1-3 digits)
- WP: Add 2 whole numbers, regroup (2-3 digits)
- WP: Add whole numbers, no regroup (1-2 digits)
- Subtract whole numbers, regroup (2-3 digits)
- WP: Subtract whole numbers, no regroup (1-3 digits)
- WP: Add 3 whole numbers, regroup (1-3 digits)
- Use doubles to add and subtract
- WP: Choose the best operation
- WP: Multiply and divide whole numbers
- Choose the best operation
- Make and test predictions
- Use multiplication to solve scaling problems
- Divide by grouping
- Divide by sharing
- WP: Add decimal money expressions
- WP: Subtract decimal money expressions
- Figure change
- Use pound and pence notation

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### **AM UK Year 4 Library**

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- Identify place value in 4-digit whole numbers
- Order 3- or 4-digit whole numbers
- Identify numbers between two given numbers (2-4 digits)
- Compare 2-, 3- or 4-digit whole numbers
- Write numbers in usual form, given partitioned form
- Write numbers in partitioned form, given usual form
- Add 2 whole numbers, no regroup (2-3 digits)
- Add 3 whole numbers, no regroup (1-3 digits)
- Add 2 whole numbers, regroup (2-3 digits)
- Add 3 or more whole numbers (2-3 digits)
- WP: Add 2 whole numbers, no regroup (2-4 digits)
- WP: Add 2 whole numbers, regroup (2-4 digits)
- WP: Add 3 whole numbers (1-3 digits)
- Subtract whole numbers, no regroup (2-3 digits)
- Subtract whole numbers (2-3 digits)
- Subtract multiples of 10 and 100
- WP: Subtract whole numbers, no regroup (2-3 digits)
- Check answers using inverse operation
- Approximate whole sums, round to the nearest 10 or 100
- Approximate whole differences by rounding
- Check answers with equivalent calculation
- WP: Approximate whole sums and differences, round
- Classify triangles and quadrilaterals
- Identify polygons
- Use the vocabulary of polygons
- Find the perimeter of a rectangle using diagrams
- Find the perimeter of a rectangle
- WP: Find perimeter
- Find the perimeter of a rectangle
- Understand reflections and lines of symmetry
- Identify lines of symmetry
- Find area by counting
- Use tally charts
- Match charts to survey data
- Interpret pictograms
- Read bar charts
- Use diagrams to sort data
- Know multiplication facts from 6s to 9s
- Know division facts
- Divide a 2-digit whole by a 1-digit whole, no remainder
- WP: Divide with basic facts
- Multiply 2- and 3-digit numbers by 10
- Use properties of multiplication
- Divide multiples of 10, 100 or 1000 by 10
- Plot and identify first quadrant coordinate points
- Convert metric measures
- Approximate sums and differences of money expressions
- WP: Approximate sums & differences of money expressions



- Calculate the elapse of time
- Subtract money expressions
- Add money expressions
- Measure metric length
- Measure metric mass
- Measure metric capacity
- Name a decimal from a pictorial representation
- Order decimals
- Find fraction and decimal equivalents
- Round 2- to 4-digit numbers to nearest 10 or 100
- Count on and back with integers
- Understand negative number concepts
- Multiply a 2-digit whole by a 1-digit whole
- Read frequency tables
- Use tables/charts to solve problems
- WP: Subtract whole numbers (2-3 digits)
- WP (Two-Step): Whole numbers
- Use ratio and proportion
- WP: Multiply a whole number by a 1-digit whole number
- Identify correct time: hour and minute
- Identify correct time: quarter to, quarter or half past
- Read timetables
- Convert between pound and pence notation
- WP: Solve problems involving money and change
- WP: Subtract money expressions
- WP: Add money expressions
- Count money and figure change



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### AM UK Year 5 Library

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- Identify place value in 6- or 9-digit whole numbers
- Write figures as words (numbers to 1 000 000 000)
- Write words as figures (numbers to 1 000 000 000)
- Compare 3- to 7-digit whole numbers
- Order 5- or 6-digit whole numbers
- Identify nets of open cubes
- Find the perimeter of composite shapes
- Find equivalent fractions
- Position fractions on a number line
- Compare and order fractions
- Identify integers between two given integers (1-2 digits)
- Identify integers on the number line
- Identify translations in the first quadrant
- Find reflections over lines of symmetry
- Read timetables
- Find products using doubles and halves facts
- Find products using doubles and halves of multiples of 10
- Rearrange factors to simplify multiplication
- Multiply using closely related facts
- Use the distributive law to partition calculations
- Use inverse relationships for multiplication and division
- Understand relationship between multiplication and division
- Know multiplication facts from 6s to 9s
- Multiply 2-, 3- and 4-digit numbers by 10 or 100
- Divide 3- and 4-digit numbers by 10 or 100
- Find the area of a rectangle
- Write decimal words as figures
- Identify place value in decimals
- Order decimals
- WP: Convert between units of measure
- Convert metric units of length
- Convert metric units of mass
- Convert metric units of capacity
- Convert between metric units
- Measure angles
- Multiply a 2-digit whole by a 2-digit whole
- Multiply a 3-digit whole by a 1-digit whole
- WP: Multiply a 3-digit whole by a 1-digit whole
- WP: Multiply a 2-digit whole by a 1- or 2-digit whole
- Divide 3-digit whole by a 1-digit whole, remainder
- WP: Divide whole numbers
- Divide a 3-digit whole by a 1-digit whole, no remainder
- Divide a 2-digit whole by a 1-digit whole, remainder
- Find factors of numbers
- Find multiples of a given number
- Read line graphs, points connected
- Convert fractions to decimals
- Find mixed number and improper fraction equivalents



- Relate fractions to division
- Calculate angles in a straight line
- Know the tests of divisibility
- Multiply a whole number by a fraction
- Find the squares of numbers
- Interpret drawings of shapes made with cubes
- Use diagrams to express percentages
- Express fractions as percentages
- Round 2- to 4-digit numbers to the nearest 10
- Round 3- and 4-digit numbers to the nearest 100
- Round 4-digit numbers to the nearest 1000
- Round decimals to whole numbers
- WP: Add and subtract decimals
- Add same place decimals to 100ths
- Subtract same place decimals to 100ths
- WP: Solve multi-step problems with whole numbers
- Choose the best operation to solve a problem
- WP: Round up or down after division
- WP: Calculate the elapse of time
- Convert 12-hour clock to 24-hour clock notation
- Find a percentage of a number
- WP: Find a percentage of a number
- Add money expressions
- Subtract money expressions
- WP: Solve problems involving money and change
- WP: Convert between currencies
- Choose the best metric unit of length
- Choose the best metric unit of capacity
- Choose the best metric unit of mass

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### **AM UK Year 6 Library**

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- Round 3- to 5-digit numbers to the nearest 10
- Round 4- to 6-digit numbers to the nearest 100
- Round 4- to 6-digit numbers to the nearest 1000
- Multiply a 3-digit whole by a 2-digit whole
- Multiply a 4-digit whole by a 1-digit whole
- Divide whole numbers
- Divide a whole by a 1-digit whole, remainders as decimals
- WP: Interpret remainders in division
- Know properties of 3-D shapes
- Visualise 3-D shapes from 2-D or 3-D drawings
- WP: Add and subtract integers
- Find the difference between integers on a number line
- Evaluate calculations with brackets
- Use the order of operations
- Plot and identify coordinates on a coordinate plane
- Find coordinates of rotated shapes on a coordinate plane
- Identify translations on a coordinate plane
- Find reflections over lines of symmetry
- Find factors and multiples of numbers
- Identify prime numbers
- Simplify fractions
- Find equivalent fractions
- Compare fractions
- Compare and order fractions
- Order fractions
- Order fractions on a number line
- WP: Solve problems involving measurement
- WP: Solve problems involving time
- Convert metric units of length
- Convert metric units of mass
- Convert metric units of capacity
- Convert between imperial and metric measurements
- WP: Solve multi-step problems with whole numbers
- WP: Divide by sharing or grouping
- Identify place value in decimals
- Multiply decimals by 10 or 100
- Divide decimals by 10 or 100
- Multiply a decimal by a 1- or 2-digit whole
- Approximate whole number products by rounding
- Approximate by rounding to the nearest 10 or 100
- Approximate decimal products by rounding to a whole number
- Multiply 2- and 3-digit whole numbers by 1000
- Divide 4- and 5-digit whole numbers by 1000
- Determine simple ratios and proportions
- WP: Solve ratio and proportion problems
- Add fractions with unlike denominators
- Add and subtract mixed numbers
- Subtract fractions with unlike denominators



- Find the nth number of a sequence or pattern
- Identify the rule for a sequence
- Read line graphs, points connected
- Convert decimals to fractions
- Convert fractions to decimals
- Convert fractions to percentages
- Convert percentages to fractions
- WP: Solve percentage problems
- WP: Solve problems with percentage discounts
- Read and interpret pie charts
- Find the size of a missing angle in a triangle
- Find the mean