

1. Number and Operations

- Place value: ones, tens, hundreds, thousands, and simple decimals where appropriate
- Reading, writing, comparing, ordering, and rounding numbers
- Addition and subtraction using mental and written strategies
- Multiplication and division facts
- Arrays, equal groups, sharing, grouping, and area models
- Age-appropriate multi-digit multiplication and division
- Number bonds, fact families, and inverse operations
- Factors, multiples, and simple divisibility ideas
- Introductory prime and composite numbers where appropriate
- Estimation, approximation, and reasonableness checks
- Number lines, base-ten models, expanded form, and other representations

2. Fractions, Decimals, and Introductory Percent Awareness

- Fractions as equal parts of shapes, sets, and number lines
- Unit fractions and common fractions
- Equivalent fractions using visual models and simple numerical reasoning
- Comparing and ordering simple fractions
- Adding and subtracting fractions with the same denominator where appropriate
- Fractions of quantities in simple contexts
- Decimals in money and measurement contexts
- Tenths and hundredths at an introductory level
- Connections between common fractions and decimals
- Percent as “per hundred” through grids, money, or simple comparison contexts where appropriate

3. Patterns, Rules, and Early Algebraic Thinking

- Repeating, growing, and shrinking patterns
- Number sequences and visual patterns
- Pattern rules and prediction of future terms
- Input-output tables and function-machine ideas
- Missing-number problems
- Inverse operations and balance/equality reasoning
- True and false number statements
- Simple symbols, boxes, or letters as placeholders for unknowns
- Writing simple expressions from everyday contexts
- Sorting, classifying, and rule-based grouping

4. Measurement and Practical Mensuration

- Length, mass, capacity, temperature, and time
- Standard metric units: mm, cm, m, km, g, kg, mL, L, and °C where appropriate
- Choosing suitable measuring tools and units
- Reading scales at an age-appropriate level
- Simple metric unit conversions where appropriate

- Analogue and digital clocks, calendars, schedules, and elapsed time
- Perimeter of simple regular and irregular shapes
- Area by counting squares and introductory area of rectangles
- Volume and capacity through practical contexts where appropriate

5. Geometry and Spatial Sense

- 2D shapes: triangles, quadrilaterals, circles, polygons, and simple composite shapes
- 3D solids: cube, cuboid, sphere, cylinder, cone, pyramid, and prism where appropriate
- Shape properties: sides, corners, angles, faces, edges, and vertices
- Classifying shapes by properties
- Right angles, acute angles, and obtuse angles at an introductory level
- Parallel and perpendicular lines where appropriate
- Symmetry and reflection in simple shapes and patterns
- Position, direction, turns, routes, maps, and simple grids
- Introductory coordinate grids where appropriate
- Composing, decomposing, and visualising shapes
- Introductory nets and spatial visualisation where appropriate

6. Data, Statistics, and Chance

- Collecting data from surveys, counts, observations, and simple experiments
- Organising data in tables, tallies, frequency lists, and simple charts
- Pictographs, bar charts, and simple line graphs where appropriate
- Reading, comparing, and interpreting data displays
- Most, least, range, difference, and total in simple contexts
- Identifying simple patterns and trends in data
- Simple conclusions based on data
- Probability language: certain, impossible, likely, unlikely, equally likely, more likely, and less likely

7. Math Problem Solving and STEM Reasoning

- One-step and multi-step word problems
- Visual reasoning with diagrams, tables, graphs, number lines, and models
- Choosing operations and strategies
- Estimation and checking reasonableness
- Logical elimination of unreasonable answers
- Explaining or recognising mathematical reasoning
- STEM contexts involving measurement, materials, motion, data, patterns, and everyday problem solving