Level 1 Maths

Number: Place Value and Whole Numbers

- Read, write, order and compare whole numbers (at least to 1,000,000)
- Understand place value (including zeros as placeholders)
- Round to nearest 10, 100, 1 decimal place (as appropriate)
- Estimate and check answers for reasonableness

Number: The Four Operations (Whole Numbers)

- Add and subtract whole numbers using efficient written methods
- Multiply whole numbers (including 2-digit by 2-digit) using a suitable method
- Divide whole numbers and interpret remainders in context
- Use factors, multiples and simple prime numbers (as needed for problem solving)

Number: Negative Numbers (Everyday Context)

- Use negative numbers in practical contexts (temperature, money)

Number: Fractions, Decimals and Percentages (FDP)

- Use fractions:
  - Find fractions of amounts
  - Compare and order simple fractions
  - Recognise equivalent fractions (common ones)
- Use decimals:
  - Place value to 2 decimal places
  - Compare and order decimals
  - Add and subtract decimals (especially money)
- Use percentages:
  - Find 10%, 20%, 25%, 50% of amounts
  - Use percentage increase/decrease in simple contexts

Number: Ratio (Simple)

- Use ratio in simple contexts (e.g., 1:2, 2:3) and scale up/down

Measures: Metric Units and Conversions

- Use metric units confidently: mm, cm, m, km; g, kg; ml, l
- Convert between metric units (e.g., mm–cm–m, g–kg, ml–l)
- Read and interpret scales (including non-standard intervals)

Measures: Perimeter, Area and Volume

- Calculate perimeter of common shapes

- Calculate area of rectangles and compound shapes by splitting into rectangles
- Understand volume in practical contexts (capacity; simple cuboids if appropriate)

Measures: Time, Money and Temperature

- Use time:
  - 12- and 24-hour clock
  - Calculate durations
  - Interpret timetables
- Use money:
  - Totals, change, budgeting
  - Compare prices and best buys
- Use temperature and calculate differences

Shape and Space: Shapes, Angles and Position

- Identify and use properties of 2D and 3D shapes
- Use angles:
  - Identify acute/obtuse/right/straight
  - Measure and draw angles with a protractor
- Use symmetry and simple transformations (reflect, rotate, translate)
- Use coordinates in the first quadrant
- Use scale drawings in simple contexts

Handling Data: Charts and Averages

- Collect and organise data using tables
- Use and interpret:
  - Bar charts
  - Line graphs
  - Pictograms
- Calculate and use averages:
  - Mean
  - Median
  - Mode
  - Range
- Interpret data to answer questions and make comparisons

Problem Solving (Throughout)

- Identify the maths needed from a word problem (choose operations)
- Solve multi-step problems using number, measures and data
- Show clear working-out and use correct units

- Check answers using estimation, inverse operations, or alternative methods

Level 2 Maths

Number: Fluency with Whole Numbers and Decimals

- Work confidently with whole numbers and decimals in multi-step problems
- Add, subtract, multiply and divide with decimals (including money)
- Use place value and rounding (including to decimal places) to estimate and check

Number: Fractions, Decimals and Percentages (FDP) Fluency

- Convert between fractions/decimals/percentages (common conversions)
- Calculate percentages of amounts
- Percentage increase/decrease
- Reverse percentages (simple cases)

Number: Ratio and Proportion

- Share amounts in a given ratio
- Scale recipes/quantities
- Use direct proportion in real-life contexts

Number: Negative Numbers, Powers and Formulae

- Use negative numbers and calculate differences
- Use powers and roots in basic form (e.g., squares, square roots) where relevant
- Solve problems involving simple formulae (including substitution)

Measures: Conversions and Compound Measures

- Convert between metric units and use them accurately in context
- Use compound measures in context (speed, cost per item, cost per kg/l)

Measures: Area, Perimeter, Volume and Rates

- Calculate perimeter and area of a wider range of shapes:
  - Triangles (where appropriate)
  - Compound shapes
- Calculate volume of cuboids and use capacity conversions
- Use time and rates:
  - Calculate durations
  - Use timetables
  - Solve speed/distance/time problems (simple)
- Use money for budgeting, discounts, VAT-style problems (simple), and best buys

Shape and Space: Reasoning with Shape and Measures

- Use properties of shapes to solve problems (including reasoning)
- Use angles in parallel lines (basic angle facts)
- Use Pythagoras theorem in simple right-angled triangle problems (if required by your spec)
- Use coordinates in all four quadrants
- Use scale drawings, bearings (simple), and maps
- Use transformations and symmetry with more confidence

Handling Data: Graphs, Probability and Decisions

- Interpret and draw:
  - Bar charts and line graphs
  - Pie charts
  - Scatter graphs (basic correlation)
- Calculate and interpret averages and spread
- Use probability in simple contexts:
  - Likelihood language
  - Simple probability of events
- Use data to make decisions and justify conclusions

Problem Solving (Throughout)

- Solve complex multi-step problems with clear reasoning
- Choose efficient methods and justify choices
- Check answers for reasonableness and communicate conclusions clearly
- Use correct units, labels, and appropriate rounding

Exam Entry (Separate Cost)

- **Exam entry is a separate cost of £30**