MATHEMATICS

KEY PERFORMANCE INDICATORS

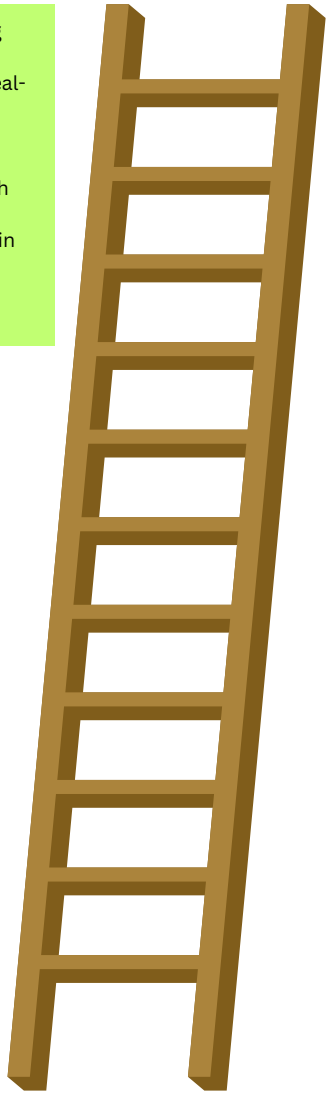
GRADE 9

- AO1: Mastery of all mathematical concepts, including higher-tier topics
- AO2: Apply knowledge fluently to unfamiliar and complex problems
- AO3: Provide clear, logical, and fully justified solutions; communicate reasoning elegantly
- Integrate knowledge across topics (algebra + geometry + statistics) in problem solving
- Interpret complex data, graphs, and real-life scenarios accurately
- Check solutions for accuracy, plausibility, and reasonableness

GRADE 6

- AO1: Demonstrate secure knowledge across all areas, including higher-tier content
- AO2: Solve challenging problem-solving questions, including real-world contexts
- AO3: Reason logically, showing all working and explaining methods clearly
- Manipulate algebraic expressions, formulae, and equations with confidence
- Begin to use functional relationships and geometric reasoning in context

🔼 Move up by: improving efficiency, accuracy, and strategy in solving multi-step problems



GRADE 4

- AO1: Recall and apply formulas for area, perimeter, volume, speed/distance/time
- AO2: Solve multi-step problems using familiar methods (fractions, percentages, ratio)
- AO3: Interpret basic graphs and tables; explain reasoning using simple sentences
- Begin to estimate answers and check plausibility
- Can convert units and work with decimals confidently

🔼 Move up by: applying methods to unfamiliar problems and showing clear reasoning

GRADE 3

- AO1: Recall basic facts, number bonds, times tables, and simple formulas
- AO2: Perform straightforward calculations (addition, subtraction, multiplication, division)
- AO3: Show working clearly for basic problems; label diagrams
- Can solve simple word problems and identify the correct operation
- Begin to use units consistently

🔼 Move up by: checking answers and explaining reasoning step by step

🔑 NON-NEGOTIABLES FOR EVERY GRADE

✓ Show all working; don't skip steps
✓ Use correct units and label diagrams clearly
✓ Memorise key formulas and number facts
✓ Attempt every question; even partial credit counts
✓ Check answers for plausibility and accuracy
✓ Practise a wide variety of problem types
✓ Learn mathematical vocabulary and notation
✓ Use estimation and inverse operations to verify answers

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