



## Grade 7 Standards of Mathematics Required

TOPIC	CONTENT
Numbers and numerals	State the place values of digits in numbers; write numbers in figures and words; find the missing number of a sequence; use the symbols $=$ , $<$ , $>$ to compare numbers; add, subtract, divide and multiply numbers; recognize and describe sets of numbers; find factors and multiples of numbers, prime numbers; express a number in prime factors, and find the highest common factor (H.C.F) and lowest common multiple (L.C.M) of numbers; round numbers to the nearest 10, 100, 1,000, 10,000.
Fractions	Add, subtract, multiply and divide fractions; recognize equivalent fractions, mixed numbers and improper fractions; compare and order fractions.
Decimals and percentages	Express decimals in expanded form; perform operations on decimals; Understand the relationship between decimals, fractions and percentages and be able to convert one to another; express a quantity as a percentage of another; calculate percentage increase or decrease.
Measurements	Use standard units of mass, length, area and volume, express quantities in terms of larger and smaller units; calculate the perimeter and area of triangles, quadrilaterals and the volume derived from these shapes; add and subtract metric quantities.
Ratio and proportion	Recognize the notation of ratios and express them in their simplest forms; use direct and indirect proportions.
Space and shapes	Recognize plane shapes and solid figures figures and draw nets of solids; identify solids and write the number of faces, vertices, and edges.
Money	Calculate using money; solve problems on simple interest, profit and loss, and discount
Statistics	Collect data and construct frequency tables; represent data on bar charts, pictograms, and pie charts; calculate the mean, median and mode for sets of data
Linear equations	Solving simple linear equations for integer values.



## Examination Criteria - Pre-IGCSE

### SECTION A

Multiple Choice questions  
Candidates should answer each question  
Weighting: 30%

### SECTION B

Structured Questions (demanding elaborate solutions)  
Candidates should answer each question.  
Weighting: 50%

### SECTION C

Aptitude Test  
Candidates should answer each question  
Weighting: 20%

