



Assessment & Examinations Unit
Assessment Material Development Dept.

Mathematics
Admission Tests

Content

Core Skills and test specs

Nile International Education System

2017 Edition

KG2 topics:

grade	Test type	timing	Core topics
KG2	Oral test	5 minutes	<ol style="list-style-type: none"> 1. Identify numbers 2. Order and compare numbers 3. Count objects 4. what comes after and before any number

Grade 1 topics:

grade	Test type	timing	Core topics
Grade 1	Oral test	5 minutes	<ol style="list-style-type: none"> 1. identify two digit numbers 2. compare numbers 3. arrange numbers ascending or descending 4. identify 2-D shapes 5. add two numbers 6. count on and back

Grade 2 topics:

grade	Test type	timing	Core topics
Grade 2	Oral test	5 minutes	<ol style="list-style-type: none"> 1. Read, write and order numbers to 20 and understand zero as an empty set 2. Compare pairs of numbers less than 20 3. Partition 2 digit numbers 4. Pairs with totals of 5 and 10 5. Compare pairs of two-digit numbers 6. Order numbers to 100 7. Find halves, thirds and quarters of shapes and small numbers of objects 8. Add single-digit numbers to two-digit numbers 9. subtract single-digit numbers to two-digit numbers 10. Compare two-digit numbers using < and > signs 11. Directly compare and order lengths 12. Order days of the week and months of the year 13. Measure and compare length using centimetres and metres 14. Describe 3D shapes 15. Recognise coins and notes, know the relationship between them 16. Represent and read given data using Pictograms, block graphs, lists and tables

Grade 3 topics:

Grade	Test duration	Total mark	Strand		
			Numbers	Geometry and measures	Data handling
Grade 3	written test One paper 30 minutes	20 marks Calculator not allowed	<ol style="list-style-type: none"> 1. Read and write numbers in letters and digits. 2. Understand the numbers system. 3. Know what each digit represent in a 2 digit number. 4. Compare and order 2 digit numbers. 5. Add and subtract 2 digit numbers. 6. Multiplication and division for times table from 1 to 5 only. 7. Fractions of simple shapes and numbers. 	<ol style="list-style-type: none"> 1. Identify different types of lines. 2. Ordering , estimating and measuring line segments (cm , m) 3. Perimeter of polygons. 4. Telling time on a digital and analogue clock. 	Collect and represent data using tables and tallies.

Grade 4 topics:

Grade	Test duration	Total mark	Strand		
			Numbers	Geometry and measures	Data handling
Grade 4	written test One paper 40 minutes	30 marks No calculator allowed	Place value to 10 000 Number facts to 20 Adding/subtracting 4-digit numbers Identify Odd and even numbers multiplying pairs of single-digit numbers and know corresponding divisions Multiplying and dividing 2-digit by 1-digit number Multiplying and dividing by 10 and 100 Fractions Halves, quarters, thirds, fifths, eighths and tenths of shapes Equivalent fractions and decimals for halves, quarters and tenths	Identifying and describing 3D shapes Units of capacity and weight Units of length Perimeter of squares and rectangles Area by counting squares Estimating measuring and recording lengths Units of time Telling time	Using the language of probability to describe the likelihood of events Collecting and using data Bar charts Tally charts, frequency tables

Grade 5 topics:

Grade	Test duration	Total mark	Strand		
			Numbers	Geometry and measures	Data handling
Grade 5	written test One paper 40 minutes	30 marks No calculator allowed	<ol style="list-style-type: none"> 1. Add and subtract whole numbers, Fractions and decimals. 2. Multiply and divide numbers till 10×10 3. Compare and order whole numbers, decimals and fractions. 4. Round (approximate) numbers. 5. Define even and odd numbers. 6. Identify multiples, factors and find common multiples. 	<ol style="list-style-type: none"> 1. Identify units of time. 2. Calculate time intervals. 3. Describe symmetry of polygons. 4. Identify and use units of mass and capacity. 	<ol style="list-style-type: none"> 1. Represent data on tally charts and bar charts. 2. Answer questions form given graphs.

Grade 7 topics:

Grade	Timing	Total mark	STRAND			
			Numbers	algebra	Geometry and measure	Data handling
Grade 7	written test two papers: Paper 1 (20 minutes) Paper 2 (20 minutes)	40 marks • Paper 1 calculato r NOT allowed • Paper 2 calculato r allowed	1. Adding/subtracting integers Order of operations 2. Order and compare integers 3. Place value, ordering, rounding 4. adding and subtracting decimals 5. multiplying 3-digit by 2-digit whole numbers; 6. Fractions/percentag es of shapes Equivalent fractions, cancelling, ordering 7. adding/subtracting;m ultiplying fraction by integer 8. equivalence of fractions, decimals and percentages 9. fractions and percentages of quantities 10. ratio of two parts 11. simple direct proportion	Coordinates in all four quadrants	1. Measuring and drawing angles 2. Perimeter and area of a rectangle 3. Measures/estimates of length, area, mass, capacity and time; conversions of units 4. surface area and volume of cuboids	1. Language of probability 2. Probability scale 3. Collecting, representing and interpreting data in bar line graphs, frequency diagrams for grouped discrete data, and pie charts

Grade 8 topics:

Grade	Timing	Total mark	STRAND			
			Numbers	algebra	Geometry and measure	Data handling
Grade 8	written test two papers: Paper 1 (20 minutes) Paper 2 (20 minutes)	40 marks Paper 1 calculator NOT allowed Paper 2 calculator allowed	<ol style="list-style-type: none"> 1. Four rules with integers 2. order of operations, including brackets 3. Squares, cubes and roots; factors, primes, prime factor HCF, LCM 4. Decimal place value, ordering, rounding 5. Fractions and percentages Equivalent fractions; ordering fractions 6. adding/subtracting fractions 7. multiplying/dividing by proper fraction 8. multiplying/dividing decimals by decimals 9. Calculating ratios 10. Direct proportion 	<ol style="list-style-type: none"> 1. Simplifying linear expressions and simple expressions with powers 2. Multiplying a single term over an expression in brackets 3. Factorize by taking common factors 	<ol style="list-style-type: none"> 1. Alternate/co rresponding angles 2. Finding unknown angles on a straight line or around a point 3. Perimeter and area of rectangle 4. Volume and surface area of cuboids 	<ol style="list-style-type: none"> 1. Collecting, representin g, interpreting data: bar charts, pie charts 2. mean, median, mode/modal class 3. probability