

# Nixor O Levels

## ADMISSION TEST SYLLABUS

### FOR STUDENTS APPLYING FOR ADMISSIONS TO GRADE 7

#### **MATHEMATICS:**

- Place Value
- Number System : INS & PNS
- Numbers & Sequences : Squares & Cubes
- HCF, LCM & Prime Factorization
- Mean, Mode, Median & Range
- Factors & Multiples
- Fractions & Decimals
- Percentages
- Probability
- Angles
- Area & Perimeter of Basic Shapes (2D/3D shapes)
- Unit Conversions
- Measurements
- BODMAS & PEMDAS
- Ratio & Proportions
- Data: pie charts

#### **ENGLISH:**

- Comprehension
- Creative Writing
- Vocabulary

#### **CRITICAL REASONING:**

The critical reasoning test consists of questions that test your ability to analyze logical arguments, such as number, pattern and symbol sequences, pattern recognitions and formation, true and false statements and other similar logical questions.

# Nixor O Levels

## ADMISSION TEST SYLLABUS

### FOR STUDENTS APPLYING FOR ADMISSIONS TO GRADE 8

#### **MATHEMATICS:**

- Fractions
- Factors & Multiples
- Prime Factorization
- Percentages
- LCM & HCF
- Probability (Descriptive)
- Decimals
- BODMAS/PEMDAS
- Integers
- Estimation & Approximation
- Measurements & Conversions
- Area & Perimeter (Basic 2D/3D Shapes)
- Volume: Cubes & Cuboids
- Fundamental Algebra
- Linear Graphs
- Angles: Triangle, Quadrilaterals, Polygons

#### **ENGLISH:**

- Comprehension
- Creative Writing
- Vocabulary

#### **CRITICAL REASONING:**

The critical reasoning test consists of questions that test your ability to analyze logical arguments, such as number, pattern and symbol sequences, pattern recognitions and formation, true and false statements and other similar logical questions.

# Nixor O Levels

## ADMISSION TEST SYLLABUS

### FOR STUDENTS APPLYING FOR ADMISSIONS TO GRADE 9

#### **MATHEMATICS:**

- Fractions
- Factors & Multiples
- LCM & HCF
- Decimals
- BODMAS
- Integers, Powers/Roots, Rational Numbers
- Percentages
- Estimation & Approximation
- Fundamental Algebra
- Simplifying Expressions & Solving Equations
- Equations & Equalities
- Functions & Linear Graphs
- Quadratic Factorization
- Area, Perimeter & Volume
- Basic Geometrical Concepts
- Probability
- Processing & Presenting Data
- Interpreting & Discussing Results

#### **ENGLISH:**

- Comprehension
- Creative Writing
- Vocabulary

#### **CRITICAL REASONING:**

The critical reasoning test consists of questions that test your ability to analyze logical arguments, such as number, pattern and symbol sequences, pattern recognitions and formation, true and false statements and other similar logical questions.

# Nixor O Levels

## ADMISSION TEST SYLLABUS

### FOR STUDENTS APPLYING FOR ADMISSIONS TO GRADE 10

#### MATHEMATICS:

- Factors
- Roots and Cube roots
- Fractions & Decimals
- Arithmetic Problems
- Algebraic Equations & Word Problems
- Area, Perimeter & Volume
- Polygons & Angle Properties
- Number Sequence
- Ratio, Rate, Proportions
- Profit, Loss, Discount
- Simple Interest & Compound Interest
- Hire Purchase
- Percentages
- Indices & Standard Form
- Inequalities
- Basic Trigonometry
- Quadratic Equations
- Pythagoras Theorem
- Coordinate Geometry
- Sketching cubic & quadratic graphs
- Simultaneous Equations
- Statistics

#### ENGLISH LANGUAGE:

- Comprehension
- Creative Writing
- Vocabulary

#### CRITICAL REASONING:

The critical reasoning test consists of questions that test your ability to analyze logical arguments, such as number, pattern and symbol sequences, pattern recognitions and formation, true and false statements and other similar logical questions.

# Nixor O Levels

## ADMISSION TEST SYLLABUS

### FOR STUDENTS APPLYING FOR ADMISSIONS TO GRADE 11

#### **MATHEMATICS:**

- Factors and Multiples
- Square and Cube Roots
- Fractions and Decimals
- Arithmetic Problems
- Number Sequence
- Algebraic Equations and Word Problems
- Quadratic Equations
- Ratio, Rate Proportions
- Percentages
- Profit Loss Discount, Simple Interest
- Indices and Standard form
- Coordinate Geometry
- Properties of Circle and Angles
- Trigonometry
- Sets and Venn Diagrams
- Statistics
- Matrices
- Linear Inequalities
- Area and Volume of Geometrical Figures
- Graphs and Identifications

#### **ENGLISH LANGUAGE:**

- Comprehension
- Creative Writing
- Vocabulary

#### **CRITICAL REASONING:**

The critical reasoning test consists of questions that test your ability to analyze logical arguments, such as number, pattern and symbol sequences, pattern recognitions and formation, true and false statements and other similar logical questions.