

**Syllabus for Entrance Exam Grade 3 (Year 4) going to Grade 4 (Year 5)****English**

**Comprehension: An Unseen passage is given.**

**Students are expected to :**

- Understand tenses.
- Construct simple and compound sentences with two clauses correctly.
- Answer direct questions.

**Composition:**

- A Narrative Composition—in two paragraphs (100 to 150 words)
- Testing their imagination, grammar, sequence, punctuation marks, vocabulary, along with their writing ability.
- Construction of sentences (10 to 12 words)

**Mathematics:**

1. **Numeration:** Number up to 9999, before and after, Place and value, number pattern and expanded form
2. **Addition:** Including word problems with proper statements and answers
3. **Subtraction:** Including word problems with proper statements and answers
4. **Multiplication:** Multiplication, Multiplication fact and sentences
5. **Division:** Division by one digit, Division fact and sentences
6. **Calendar and Time:** time to S minutes, Period of time
7. **Fractions:** Pictorial, thirds, fifths etc., Fractions & division
8. **Capacity and weight:** Conversion from L to ml, kg to g, Simple +, - , X, with ml / liter  
**Area:** Pictorials — write the area by counting the Squares, Comparison of area
9. **Graph:** Bar Graph — Plotting and Reading
10. **Money:** Bar Graph — Plotting and Reading, Calculation of £ and P (+, —, X, + ),  
Conversion pounds to Pence & vice —a versa
11. **Geometry:** 3 basic lines and 3 basic angles, Quadrilaterals, shapes, Cone, Cylinder, circle, (All identification), only identification of these shapes; cone, cylinder, circle & Quadrilaterals.



**Syllabus for Entrance Exam Grade 4 (Year 5) going to Grade 5 (Year 6)**

**English:**

**Comprehension:**

**An Unseen passage will be given.**

**Students are expected to :**

- Know all the tenses and significance of pronouns.
- Construct simple and compound sentences correctly.
- Answer direct questions.
- Look for clues to make predictions.

**Composition:**

- A Narrative Composition—in two paragraphs (150 words)
- Testing their imagination, grammar, sequence, punctuation marks, vocabulary, along with their writing ability.
- Construction of sentences (10 to 12 words)

**Mathematics:**

1. Numeration (Numbers up to 100,000)
2. Addition, Subtraction, Multiplication and division problems
3. Rounding off
4. Roman Numerals and Hindu Arabic numerals
5. Fractions (Addition, Subtraction, Multiplication) Word problems
6. Decimals (a tenth, a hundredth, a thousandth) problems included
7. Money (+, -, x and ÷) along with problems
8. Measurements:  
Length: cm, m, and km (+, - x and ÷)  
Weight: g and kg (+ and – problems)  
Capacity: liters and milliliters (+ and – problems)
9. Time: to and past, earlier than and later than
10. Geometry: Angles, Triangles and polygons
11. Area and perimeter of squares and rectangles
12. Circles (Radius and Diameter)



## **Syllabus for Entrance Exam Grade 5 (Year 6) going to Grade 6 (Year 7)**

### **English:**

**English Comprehension** :An Unseen passage will be given.

Students are expected to :

- Understand the significance of surroundings in a comprehension passage.
- Construct correct sentences with many clauses.
- Know all the 12 tenses and the parts of speech.
- Look for clues to make predictions.
- Reflect on what has happened in the text and identify key details

### **English Composition**

- A Narrative composition in 3 paragraphs in 200 to 250 words  
The pupil is graded for his:-
- Rich vocabulary
- Proper use of punctuation
- Usage of new phrases and idioms/proverbs etc.
- Imagination
- Logical sequence etc.

### **Mathematics**

1. **Numeration:** numbers up to 10 million, Read and write numbers, write in figures addition, subtraction, multiplication, division.
2. **Rounding off numbers** up to 10 million.
3. **Angles:** types of angles, missing angles in a right angle and straight angle, finding reflex angle.
4. **Fractions:** Types of fractions, change improper fraction to mixed fraction and vice versa. Reducing fractions to lowest terms, Addition, subtraction, multiplication, Equivalent fractions.
5. **Percentage:** changing fractions/ decimals to percentage, Percentage to fractions in lowest terms, discount and sales price.
6. **Area and perimeter:** Area and perimeter of square, rectangle, triangle.
7. **Volume** of cubes and cuboids.
8. **Decimals:** place and value, Addition, subtraction, multiplication, division of decimal numbers.
9. **Missing angles** in triangle and quadrilateral.
10. **Coordinates:** Read and plot coordinates in the first quadrant.
11. **BODMAS**
12. **Multiplication/division** of whole numbers and decimal numbers by 10,100,1000.



## Syllabus for Entrance Exam Grade 6 (Year 7) going to Grade 7 (Year 8)

### English

**English Comprehension:** An unseen passage is given.

Students are expected to:

- Know all the 12 tenses and parts of speech.
- Construct sentences with many clauses.
- Understand the significance of surroundings in a comprehension passage.
- Deduce meanings through given facts.
- Connect facts from different paragraphs.
- Identify the key details and summarize the context.

### **English Composition**

- **A composition of 4-5 paragraphs in 300 to 350 words**
- A Narrative
- A friendly letter
- Story writing from the given outline

**The pupil is graded for his:-**

- Rich vocabulary
- Proper use of punctuation
- Usage of new phrases and idioms/proverbs etc.
- Imagination
- Logical sequence etc.

### Mathematics:

1. BODMAS(+, -, x, ÷)
2. Fractions(Addition,subtraction,multiplication,division)
3. Decimals(Addition,subtraction,multiplication,division)
4. Fractions and decimals(relationship)
5. Calender,Time
6. Negative numbers(+ and - )
7. Sequences-Finding terms in patterns
8. Number Theory(Square,triangular,prime ,composite numbers)
9. Area & Perimeter(Square,Rectangle,Triangle and Trapezium)
10. Volume(cube & cuboid)
11. Mean,Median,Mode and Range
12. Rounding off-Decimals and Whole numbers
13. Metric System
14. Geometry-Angles,Triangles,Quadrilaterals,-Missing angles
15. Percentage of a quantity& Quantity when percentage is given
16. Co-ordinates
17. Probability(Just Basics)
18. Ratio and Proportion
19. Pie chart and Bar graphs
20. Algebra



## **Syllabus for Entrance Exam Grade 7 (Year 8) going to Grade 8 (Year 9)**

### **English:**

**English Comprehension:** An unseen passage is given

Students are expected to :

- Analyze characters from action and from other people's opinion.
- Make explicit connections with the text.
- Know all the 12 tenses and parts of speech.
- Construct sentences with many clauses.
- Understand the significance of surroundings in a comprehension passage.
- Deduce meanings through given facts.
- Connect facts from different paragraphs.
- Identify the key details and summarize the context.

### **English Composition**

- **A composition in 4-5 paragraphs in 350 to 400 words**
- A Narrative
- A friendly letter
- Story writing from the given outline
- Diary Writing

**The pupil is graded for his:-**

- Rich vocabulary
- Proper use of punctuation
- Usage of new phrases and idioms/proverbs etc.
- Imagination
- Logical sequence etc.

### **Grammar:**

- Parts of Speech (Nouns, Verbs, adjectives, Adverbs)
- Verbs (tenses)
- Active and Passive voice
- Direct and indirect speech

### **Mathematics:**

#### **1. SETS:**

Basic ideas, large sets, equal sets, empty sets, subsets and Venn diagram, union and intersection of sets, disjoint sets.

#### **2. MONEY, LENGTH AND TIME:**

Money question, meter, centimeter, millimeter and kilometer. Time: 12 hrs-24hrs clock addition and subtraction of time.

#### **3. FACTORS AND MULTIPLES:**

Prime numbers, common factors, index form, common multiples, least common multiples and highest common factors, word problems.

#### **4. GRAPHS AND FREQUENCY TABLE:**

Bar charts and pie charts, reading bar chart and pie charts, finding actual number if angles are given, find angles for drawing pie charts

**5. ANGLES:**

Different angles, finding the different angles (right angles, acute angles, obtuse angle, reflex and straight angle, angles around a point, vertically opposite angles).

**6. FRACTIONS:**

Four operations on fractions, some simple word problems, mixed operations converting fraction to decimal, decimal to fraction.

**7. PARALLEL LINES:**

Introduction to corresponding, allied, alternate, vertically opposite and adjacent angles.

**8. CONSTRUCTION:**

Construction of triangles and their types, bisecting side, bisecting angles, drawing angles of 60, 120, 90, 30, 45, 105, 75 without using protractor.

**9. AREA AND VOLUME:**

Area of rectangle, square. Perimeter of rectangle, square and compound figure. To find number of tiles that can be put in given room. changing units from cm to mm, m to cm, cm to m. Volume of cubes, cuboids, conversion of mm to cm etc. area of parallelogram and triangles.



**ENTRANCE EXAM SYLLABUS**

**MATHEMATICS- GRADE 8 TO 9(YR9 to 10)**

No	Contents
1.	Number Theory: Natural number, Whole numbers, integers, rational and irrational numbers.
2.	Standard forms: writing in standard forms, addition and subtraction, multiplication and division in standard forms.
3.	Rounding off to given decimal place and significant figures
4.	Finding square root and cube root
5.	Forming an expression, Constructing the formulae
6.	Simplification of simple expressions, expressions with fractions, simple expression with brackets
7.	Substitution of numbers into expressions (involving powers and brackets}
8.	Solving simple equation with brackets
9.	Forming simple equation from the information given
10.	Changing the Subject
11.	Bar graphs, Frequency tables
12.	Simple probability
13.	Properties of triangles (exterior angle properties) and quadrilaterals (kite, rhombus, parallelogram, trapezium, square, rectangle), Construction
14.	Area and perimeter (kite, rhombus, parallelogram, trapezium, square, rectangle), Shaded area
15.	Volume of cubes and cuboids
16.	Congruency, Line and rotational symmetry
17.	Addition, subtraction, Multiplication & division of numbers with indices, Solving indices equation
18.	Profit, loss, Finding SP, CP, profit and loss %, Simple and Compound Interest, HPP Commission
19.	Names of polygons, Types, Sum of interior angles, Sum of exterior angles, Exterior angle= $360/n$ , Interior angle + exterior angle = 180



20.	Pythagoras theorem
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**ENGLISH (GRADE 8 TO GRADE 9) [year 9 going to year 10]**

**LANGUAGE:**

1. Revision of parts of speech
2. Revision of tenses (concentrating on Perfect Continuous Tenses)
3. Direct and Indirect Speech (Question and Imperative sentences)
4. Types of sentences
5. Active/ Passive Voice
6. Participles – Phrases (Prepositional, Infinitive, Adjectives, Adverbs, Mark out Phrases)
7. Distinguish between sentences and phrases
8. Clause – three types (noun, adjective, adverb)
9. Sentences (simple, compound, complex)

**COMPREHENSION**

**Kinds of questions: direct reasoning, directed writing task, language skills [vocabulary]-**

Seen and unseen comprehension text for pupils to read and attempt questions.

Questions will be based to judge the following --

- responding critically in terms of understanding and inference
- selecting relevant textual evidence to support a critical response
- exploring a writer's selection of ideas and structural or organisational choices
- exploring a writers' use of language
- identifying and exploring the writer's intention and viewpoint, and the overall effect of the text on the reader





Criterion for valuation: quality of answer as per question asked, to the point answers, knowledge of grammar, spelling and punctuation, ability to understand the purpose of the question.

## COMPOSITION

Word limit for composition (250 – 300)

- 1) Personal Narratives In The Form Of Letters
- 2) Descriptive Essays (People, Places)
- 3) Newspaper Report
- 4) Interview Writing
- 5) Formal Letters (Letters to the Editor. Complaint and Enquiry, Job Application, Leave Application)
- 6) persuasive, argumentative,
- 7) Articles,
- 8) Speech writing, opinion writing: Debate, one sided opinion, (opinion can be expressed as a letter to the editor or an article),
- 9) story writing

Criterion for evaluation: knowledge of above mentioned formats paragraphing skills, diction used, spelling grammar, punctuation, awareness of the purpose and audience.



## ENTRANCE EXAM SYLLABUS MATHEMATICS - GRADE 9 TO 10(YR10 TO11)

No	Contents
21.	<b>Revision of Grade 8</b> <ul style="list-style-type: none"><li>• Using Brackets, Solution of Simple Equations, Changing the subject, Polygons</li><li>• Symmetry, Area of triangle, rectangle square, compound figures and volume of cube and cuboid, Pythagoras theorem, Indices, Simplification of algebraic expressions</li></ul>
22.	<b>Algebra</b> <ul style="list-style-type: none"><li>• Simplification of Algebraic Expressions, Solution of simple Equations involving Fractions, Identities <math>(a + b)^2</math>, <math>(a - b)^2</math>, <math>(a + b)(a - b)</math>, Three brackets</li></ul>
23.	<b>Variation</b> <ul style="list-style-type: none"><li>• To identify direct variation and inverse variation, To find the unknown in a variation problem, To solve application problems involving direct and inverse variation</li></ul>
24.	<b>Graph of straight Lines</b> <ul style="list-style-type: none"><li>• Standard form of linear equations, To draw a graph of a straight line, To find gradient from equation, To find gradient and intercepts using formula, To form Equations when gradient and y intercepts are given, Forming Equation from the graph, Equation of parallel and perpendicular lines</li></ul>
25.	<b>Simultaneous Equations</b> <ul style="list-style-type: none"><li>• Substitution, elimination and graphing, Word problems –Age, 2-digit number, money problems, fraction problems</li></ul>
26.	<b>Factorization</b> <ul style="list-style-type: none"><li>• Taking out common factors, By grouping (4 terms), Using the identity <math>a^2 - b^2</math>, Trinomial Method- By splitting the middle term with coefficient of squared term 1 and greater than 1, Trinomials, Grouping, Sums &amp; Difference of 2 cubes, Expressions containing 5 terms, Factor Theorem, Remainder Theorem.</li></ul>
27.	<b>Quadratic Equations</b> <ul style="list-style-type: none"><li>• Word Problems</li></ul>



	<p><b>Solution by Factorization, Solving the same by quadratic formula and by completing the square, Simultaneous equations – one linear and one quadratic, the harder problems leading to quadratic equations.</b></p>
28.	<p><b>Linear Inequalities</b></p> <p>To solve linear inequalities, Number line representation of inequalities, Shading the region from the given set of linear inequalities, Writing the inequalities from the given shaded region</p>
29.	<p><b>Similar Triangles</b></p> <ul style="list-style-type: none"><li>• Tests of Similarity, Proving triangles are similar, Area of Similar triangles, Finding missing sides of similar triangles, sums based on map area, Volume of similar shapes.</li></ul>
30.	<p><b>Area &amp; Volume</b></p> <ul style="list-style-type: none"><li>• Areas of Triangle, Parallelogram, Rectangle, Area of circles, arc length, sector area and segment area, Areas of Cuboids, Cube, Areas of a walls of a room, Area of Solids with uniform cross section, Surface area and volume of Prisms, Tetrahedron, Square and Rectangular pyramids, Region between 2 rectangles, Space between 2 boxes, Density, Relative Density, Circumference and Volume of cone &amp; sphere, Area of a ring, Volume of material in a pipe, Discharge of water from a pipe, Areas of similar figures, Volume of similar solids.</li></ul>
31.	<p><b>Trigonometry Sine, Cosine and Tangent ratios, Solution of a right triangle, Angle of elevation and depression, Sine and cosine formula</b></p>
32.	<p><b>Arithmetic &amp; Geometric progression Recognizing an AP, nth term of an AP, The arithmetic mean, The sum of an AP, Recognizing a GP, nth term of a GP, The geometric mean, The sum of a GP.</b></p>
33.	<p><b>Quadratic Graph/Cubic Graph /Inequalities To plot quadratic/cubic equation on a graph, solving equations by using the graph of a Quadratic Graph, To find range of x for which y is less than or equal to a given value, Gradient of the curve by drawing Tangent, Turning point, Maximum and minimum.</b></p>
34.	<p><b>Set Theory</b></p> <p>Venn diagram and their use in simple logical problems, Use of symbols to represent sets, Problems in practical situation.</p>
35.	<p><b>Approximation</b></p>



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|  | <ul style="list-style-type: none"><li>• <b>Expressing numbers to a given degree of accuracy, Correction to a given number of decimal places or significant figures, operations in standard form, Limits of accuracy.</b></li></ul> |
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## ENGLISH (GRADE 9 TO GRADE 10) [year 10 going to year 11]

### LANGUAGE

1. Revision of all parts of speech: nouns, verbs, adjectives, adverbs, pronouns, conjunctions and prepositions.
2. Revision of tenses, active and passive voice.
3. Direct and indirect speech. Indirect questions
4. Punctuation: Revise the rules
5. Phrases – all kind: nouns, adverbial, infinitive, participle, prepositional: Exercises to combine sentences with the above.
6. Clauses: Noun clauses, adjectival clauses and adverbial clauses. Also use to combine sentences.
7. Stress on variety of sentences' structure. 35 – 40 types of sentences are taught.
8. Articles, numbers, confusable words, antonyms synonyms.
9. Transitions
10. Vocabulary building – charging forms of words as directed.

### COMPREHENSION

1. Passage pertaining to a particular theme or topic
2. Passage will have a connecting theme or be connected in some way.
3. Students are encouraged to analyze a given passage after careful reading reach conclusion.  
The analyses should include comments on the use of language form and structure.
4. Focus on observing paragraph – topic sentences and connectives in given passage.
5. Observe the writers' style.
6. Recognize the tone of the passage i.e. serious, light hearted etc.
7. Vocabularies build – up from given passages encouraged.



8. Directed writing to be included. Could be in form of a letter, report, speech, article, leaflet and / or radio broadcast.

Criterion for valuation: quality of answer as per question asked, to the point answers, knowledge of grammar, spelling and punctuation, ability to understand the purpose of the question.

## **COMPOSITION**

1. Descriptive writing: describing a person, place, scene, a process.
2. Reports: newspaper / official / personal / reporting events
3. Articles: informative / persuasive / giving opinions
4. Narrative writing: personal narrative
5. Personal narrative: focus on sequence of events
6. Patterns of flow: time, sequence, events in order of importance.  
(In both styles of narrative; focus on connected paragraphs using transitions.)
7. Opinion and Argument writing: Discuss both points of view.

Criterion for evaluation: knowledge of above mentioned formats paragraphing skills, diction used, spelling grammar, punctuation, awareness of the purpose and audience.