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**THE SCINDIA SCHOOL**
**GUIDELINE FOR EXPECTED LEVEL OF PREPARATION FOR ADMISSION**
**IN CLASS VI – IX**
**CLASS - 6**

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## ENGLISH
## FUNCTIONAL GRAMMAR

The test does not aim at checking rigid rules of functional grammar skills, but at evaluating the student's command over the language, his fluency of expression, vocabulary, originality of thoughts and ideas.

*The student should be able to do the following:-*

1. Write an essay or composition on a given topic.
2. Write a story or a composition based on a given picture or a series of picture.
3. Use direct and indirect speech.
4. Write an informal letter.
5. Comprehend an unseen passage and answer questions based on it, write the meaning and opposites Of words from the passage and framing of the sentences with words taken from the passage.
6. Workout sentences based on the functional use of grammar - Parts of Speech
7. Tenses.

## MATHEMATICS

1. Numbers :- Basics of numbers, Four operations, Roman numbers, Rounding off.
2. L.C.M. & H.C.F :- Factors (AU & Prime), Multiples, L.C.M., H.C.F, Property of L.C.M. and H.C.F.
3. Frictional Numbers :- Fractional Numbers as division, Conversion of Mixed to Improper and vice-versa, Equivalent fraction, lowest form, and Ordering Four operation $(+,-,\times, +)$.
4. Decimal Number :- Place value, Expanded form, conversion (Decimal to fraction and vice-versa), Percentage, Fractional and decimals as percentage and vice-versa, Four operation $(+, -, \times, +)$.
5. Measurement :- Unit of length, Mass, Capacity, Conversion of one unit to other. Addition and subtraction. Daily life problems .
Time :- Conversion o/units and 24 hour clock time, Addition. Subtraction.
Temperature :- Reading of Celsius and Fahrenheit scale

6. Money Transaction :-Introduction. Unitary Method, Profit and loss.

7. Pictorial Representation of Data:- Pictograph (Collection, Recording of data) Drawing of pictograph..
8. Basic Geometrical Concepts:- Line, Ray, Segment, Angle (Measuring, Classification. Construction) Parallel lines, Perpendicular line.
9. Triangles:- Sum of the Angles of a triangle, Types of triangles.
10. Circle :- All definitions, Finding of radius, diameter and circumference.
11. Perimeter, Area and Volume :-Introduction of three concepts, units of three concepts, finding of Perimeter, Area and Volume, Uses of their formulae.

# CLASS - 7

## ENGLISH

## FUNCTIONAL GRAMMAR

The test does not aim at checking rigid rules of functional grammar skills, but at evaluating the student's command over the language, his fluency of expression. vocabulary, originality of thoughts and ideas.

*The student should be able to do the following:-*

1. Write an essay or composition on a given topic.
2. Unseen passage (Prose/Poem) - questions, meanings, sentences, opposites etc.
3. Write a short story based on a given picture.
4. Write an informal letter.
5. Direct and indirect speech.
6. Tenses.
7. Parts of speech (noun, pronoun. adverb, adjective, verb, conjunction, preposition and interjection).
8. Correct the spellings.
9. Modals.
10. Infinitives, Gerund and Participle.
11. Punctuate sentences.
12. Prefix/Suffix.

## MATHEMATICS

1. Numbers :- Basics, Rounding off, Roman. numbers. Indian and International system of numeration..
2. Whole Numbers :- Number line, Types (Even, Odd, Prime, Composite ..... etc). Properties o/whole numbers.
3. L.C.M. & H.C.F. :-Factors, Multiples, (Prime and All Factors), L.C.M, H.C.F, Word problems.
4. Shapes :- Straight line (drawing and Measuring), Angles, Perpendicular line, Triangles, Quadrilaterals, Polygons (Types and names). 3D Shapes (Face, Edge, Vertex)
5. Integers :- Negative numbers, Number line, Ordering, Addition, Subtraction.
6. Fractions :- Fractions on number line, Types, lowest form, equivalent, comparing, ordering, addition and subtraction.

7. Decimal :- As fraction, conversion of F. No to decimal No and vice-versa, comparing, ordering, expanded form, use in length, mass, capacity, addition and subtraction of decimals.
8. Data Handling :- Recording, Organization, Pictograph. Bargraph, (Their reading and drawing).
9. Mensuration :- Perimeter and Area of Rectangle. Square, Irregular Figures use of Formula for (Rectangle and square).
10. Ratio & Proportion :- Introduction, Unitary Method (Direct variation).
11. Symmetry:- Line of symmetry, Figures with multiple lines of symmetry.
12. Practical Geometry :- Construction of lines, Perpendicular lines, Angles with protractor and compass.
13. Algebra :- Introduction of variables through word problems.

**ENGLISH**

**FUNCTIONAL GRAMMAR**
The test does not aim at checking rigid rules of functional grammar skills, but at evaluating the student's command over the language, his fluency of expression, vocabulary, originality ofthough1s and ideas.

*The student should be able to do the following:-*
1. Write an essay or composition on a given topic.
2. Unseen passage (Prose/Poem) - questions, meanings, sentences, opposites etc.
3. Write a short story based on a given picture.
4. Formal/Informal letter.
5. Direct and indirect speech.
6. Tenses.
7. Parts of speech (noun, pronoun, adverb, adjective, verb, conjunction, preposition, and interjection).
8. Correct the spellings.
9. Modals.
10. Infinitives, Gerund and Participle.
11. Punctuate sentences.
12. Prefix/Suffix.
13. Jumbled sentences.

**MATHEMATICS**

1. Integers :- Operation on integers, properties related to operation on integers, word problems including integers (au operations).
2. Fractions and Decimals :- Operation on fractions and decimals, word problems involving fractions (all operations). Rational numbers, operation on rational numbers, word problems.
3. Exponents, Laws of exponents, decimal number system, expressing large numbers in the standard form.
4. Algebraic Expressions :- Addition, subtraction and finding value of Algebraic expressions, Rules and Formulas using algebraic expressions.
5. Liner equations in one variables - their formulation, solution and application as word problems.
6. Comparing Quantities :- Ratio & Proportion, unitary method, percentage and its application, profit and loss, simple interest.
7. Lines and Angles :- Supplementary angels, complementary angles, vertically opposite angles, linear pair, angles made by transversal and properties related to parallel lines.
8. Triangles and its properties, types of triangles, angle sum property, exterior angle property, triangle inequality, right angled triangle and Pythagoras theorem.
9. Congruence of plane figures, congruence of triangles using criteria, SSS, SAS, ASA,RHS.
10. Construction of different angles, construction of parallel lines, construction of

triangles, using SSS, SAS, ASA and RHS criteria.

11. Symmetry :- Line symmetry, Rotational symmetry, line and rotational symmetry.

12. Visualising Solid Shapes :- 2 D shapes, 3 D shapes, 2 D representation of 3 D shapes, oblique sketch, Isometric sketch.

13. Perimeter and area of a square, Rectangle, parallelogram and triangle. Circumference and area of circle, applications.

14. DATA Handling :- Organising of Data, Mean, Median and Mode of Ungrouped data, construction and Reading of bar graphs, chance and probability.

# CLASS - 9

## ENGLISH
## FUNCTIONAL GRAMMAR

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### *The student should be able to do the following:-*

1. Write an essay or composition on a given topic.
2. Unseen passage (Prose/Poem) - questions, meanings, sentences, opposites etc.
3. Write a short story based on a given picture.
4. Formal/Informal letter.
5. Direct and indirect speech.
6. Tenses.
7. Parts of speech (noun, pronoun, adverb, adjective, verb, conjunction, preposition and interjection).
8. Correct the spellings.
9. Modals.
10. Infinitives, Gerund and Participle.
11. Punctuate sentences.
12. Prefix/Suffix.
13. Jumbled sentences.

## MATHEMATICS

1. Rational Numbers:- Properties of Rational numbers, operation on Rational numbers, representation on number line, word problems.
2. Exponents :- Integers as exponents, Laws of exponents.
3. Square roots, cube, cube roots. Finding square root by division method. Finding square root and cube root using factor method. Estimating square roots and cube roots.
4. Generalised form of numbers, number puzzles, divisibility test rules of 2,3,5, 9, 10. H.C.F. and L.C.M of numbers.
5. Algebra :- Algebraic expressions, operations on algebraic expressions, algebraic identities.
6. Solving linear equations in one variable form, word problems.
7. Ratio and Proportion, advanced problems involving applications on percentage, profit and loss, overhead expenses, discount, tax.
8. Simple interest, compound interest, difference between simple interest and compound. interest.
9. Direct and inverse variations, time and work problems.

**Geometry**

10. Quadrilaterals :- Properties of quadrilaterals, sum angle property, type of quadrilaterals, properties of parallelogram with verification, construction of quadrilaterals.
11. Visualizing Geometrical Shapes:- Identifying area matching pictures with objects, drawing 2D representation of 3D object, verification of Euler's relation of 3D figures.
12. Mensuration:- Area of trapezium and polygon, surface area and volume of cube, cuboid and cylinder.
13. DATA Handling :- Grouping of Raw data, Bar graph, pie chart, mean, median and mode.
14. Introduction to Graphs :- Cartesian plane, plotting points for different conditions, reading of different types of graphs.

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