



Ganga International School

Syllabus for Entrance Exams 2010-11

Class – VIII

ENGLISH

1. Unseen comprehension
2. Application
3. Paragraph writing
4. Formal/ Informal letters
5. Prepositions
6. Modals
7. Verbs
8. Tenses
9. Voices(Active, Passive)
10. Punctuations
11. Adjectives, Adverbs, Nouns, Pronouns

SCIENCE

1. Nutrition in plants: - Nutrition and its type. Autotrophic nutrition in plants. Heterotrophic nutrition, Saprotrophes. Replenishing Nutrients in the soil.
2. Nutrients in Animals: - Nutrition in Amoeba. Hydra and frog. The human digestive system. Ruminants.
3. Structure of matter: - What is matter made up of? Elements and Components, Mixtures, Methods of chemical communication- symbols, formulae and chemical equations.
4. Heat and its effects: - What is heat? Effects of heat. Expansion in fields, Liquids and Gases. Importance and its measurements.
5. Acid, Bases and Salts: - Acid and bases- their important properties. The preparation and uses of salts.
6. Chemicals and Chemical changes: - Physical and chemical changes. Characteristics of chemical reduction. Types of chemical reactions. Separations of solid from a solution.
7. Weather, Climate and Adaption: - Weather, Climate, Effect of Sun on Climate, Climate and adaptation.
8. Soil: - Composition of soil, Formation of soil. Soil profile, Types of soil, Properties of soil.
9. Respiration: - Respiration in plants, Respiration in animals, The respiratory system in humans.
10. Transportation of materials in plants and animals: - Transportation of materials in plants, Transportation of materials in animals, Excretion in animals.
11. Motion and Time: - Measurements of time. Speed, Uniform motion, Non- Uniform motion. Distance time graph.
12. Light: - Rectilinear proportion of light, Reflection of light. Real and virtual images, Spherical mirrors, Lenses, Spectrum.
13. Electric current and its effects: - . Electric current and circuit, Effects of Electric current, The electromagnet.
14. Water and natural resource: - Our natural resources, Renewable and Nonrenewable Resources, Water and renewable resources, Shortage of water. States of water, The water cycle, Ground water, Water conservation.
15. Our Forests: - Forest Wealth, Producers, Consumers and decomposers, Food chain, Balance in nature. Forest conservation.

MATHEMATICS

1. Number System:-
 - a) Integers: Addition, Subtraction, Multiplication and Division of integers, Representation on number line, Comparison of integers, Word problems based on integers.
 - b) Decimals and Fractions: Addition, Subtraction, Multiplication and Division of Decimals and Fractions, Comparison of number, Word problems, Conversion of units, Representation on number line.
 - c) Rational numbers:- Addition, Subtraction, Multiplication and Division, Comparison, Reducing in lowest form, Equivalent rational numbers, Representation on number line, Finding rational numbers between two rational numbers.

2. Algebra:-
 - a) Simple equation: linear equation in one variable, Equation formation, Solution finding by trial and error method, temporary method.
 - b) Algebraic expression:- Problems based on polynomial formation, Identification, Addition of polynomials, Finding value: Polynomial for some value given.
3. Geometry:-
 - a) Lines and angles:- Median, altitude, Vertically opposite angles, Linear equation, Supplementary and complimentary angles, adjacent angles, Parallel || lines and properties about angles two parallel lines are making. Alternate interior and exterior angle, Corresponding angles, Consecutive interior and exterior angles.
 - b) Triangle and its properties: Angle Sum property of triangle, integrity property of triangle, Pythagoras theorem. Exterior angle= Sum of interior opposite angles of a triangle.
4. Construction of Angles, Congruence of triangles.
5. Data Handling: - Mean, Mode, Medians, Rectangle, Single and double bar graph.
6. Mensuration: - Perimeter, circumference, Area of a square, Rectangle, Circle, Semi-circle. Area of -----, rhombus, Word Problems based on above concepts.
7. Comparing quantities:- Conversion into % of decimal, Fractions whole numbers, Word problems based on %, Word problems based on CP,SP, Profit % and Loss %, SI and Amount.
8. Exponents and Power: - Exponential laws based problems, Write numbers in Exponential form, writing numbers in standard form.
9. Symmetry: - Line symmetry of figure and polygon, Rotational symmetry of polygon or figure.

HINDI

- 1 भाषा
- 2 वर्ण विचार
- 3 शब्द विचार
- 4 संज्ञा
- 5 संज्ञा के विकारक तत्व
- 6 सर्वनाम
- 7 विशेषण
- 8 क्रिया
- 9 क्रिया विशेषण
- 10 संधि
- 11 वाक्य विचार
- 12 शब्द रचना
- 13 मुहावरे
- 14 पत्र लेखन
- 15 अनुच्छेद
- 16 अपठित गद्यांश