

## ENTRANCE EXAM SYLLABUS FOR CLASS- IX

### English

- Write an essay on a given topic or picture composition.
- Comprehend an unseen passage and answer questions based on it.
  - Give the meaning and opposites of words taken from the passage.
  - Construct sentences with words taken from the passage.
- Letter Writing
- Direct and indirect speech / Active & Passive Speech
- Use of: Verbs, nouns, pronouns, tenses, prepositions, conjunctions and idioms.
- Tenses
- Punctuate Sentences
- Clauses

### Mathematics

- Rational Numbers (Fundamental Operations, Reducing fractions)
- Decimals (Fundamental operations and terminating & Non-terminating)
- Exponents (Laws of Exponents)
- Percentage, Profit & Loss, Discount & Simple Interest
- Algebraic Expressions (Operations, Multiplication of Binomials & Trinomials, Multiplication using identities)
- Solving Linear Equations
- Angles (Basic Concepts & Construction)
- Triangles, their properties and constructions.
- Parallel Lines (Corresponding and Alternate Interior Angles)

### Environmental Science

- Ecosystems
- Issues concerning environment
- Pollution

### Science

- **Physics**
  - Heat and Light
  - Sound and Magnetism
  - Measurements (basics)
- **Chemistry**
  - Elements, Compounds and Mixtures
  - Physical and chemical changes
  - Air and Water
  - Basic Atomic Structure
  - Matter

- **Biology**

- Flowering plants
- Health and hygiene
- Systems of the human body – organs and functions

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## हिन्दी

- 1 निबंध रचना
- 2 अपठित गद्यांश पर आधारित प्रश्न
- 3 पत्र लेखन
- 4 वाक्य संरचना
- 5 मुहावरे एवं लोकोक्तियाँ
- 6 विलोम शब्द,
- 7 समानार्थी शब्द
- 8 श्रुतिसम भिन्नार्थक शब्द
- 9 वाक्य परिवर्तन
- 10 विकारी शब्द
- 11 संख्या बोध 1863, 1947, 2006
- 12 अशुद्धि संशोधन
- 13 कठिन शब्दों के अर्थ