



## SYLLABUS FOR ENTRANCE EXAMINATION CLASS : IX

### SUBJECT : MATHEMATICS

S.NO	TOPICS
1.	Rational Numbers,
2.	Linear Equations in One Variable
3.	Understanding Quadrilaterals
4.	Data Handling,
5.	Squares and Square Roots.
6.	Cubes and Cube Roots.
7.	Comparing Quantities.
8.	Algebraic Expressions and Identities.
9.	Areas & Volumes
10.	Exponents and Powers.
11.	Direct and Inverse Proportions.
12.	Factorisation.

### SUBJECT : SCIENCE

S.NO	TOPICS
1.	<b>Cell structure</b> <ul style="list-style-type: none"><li>• Function and parts of a cell</li></ul>
2.	<b>Microbial World</b> <ul style="list-style-type: none"><li>• Types of microorganisms</li><li>• Preservation of food</li></ul>
3.	<b>Plant and animal reproduction</b> <ul style="list-style-type: none"><li>• Asexual reproduction, Sexual reproduction in flowering plants,</li></ul>

	<ul style="list-style-type: none"> <li>• Reproduction in humans, Viviparous and oviparous animals</li> </ul>
4.	<b>Reaching the age of adolescence</b> <ul style="list-style-type: none"> <li>• Puberty, The reproductive phase,</li> <li>• Sex determination, Role of hormones, Reproductive health</li> </ul>
5.	<b>Electricity and chemical effects of current</b> <ul style="list-style-type: none"> <li>• Current, Open and closed circuit</li> <li>• Electromagnets and its applications</li> <li>• Electrolysis, Electroplating</li> </ul>
6.	<b>Force and Friction</b> <ul style="list-style-type: none"> <li>• Concept</li> <li>• Types of forces</li> </ul>
7.	<b>Natural Resources and their conservation</b> <ul style="list-style-type: none"> <li>• Natural sources of energy,</li> <li>• Water: Hydro energy</li> <li>• Air: Composition.</li> </ul>
8.	<b>Pressure and Sound</b> <ul style="list-style-type: none"> <li>• Concept</li> </ul>
9.	<b>Light</b> <ul style="list-style-type: none"> <li>• Reflection, Refraction, Lenses</li> <li>• Human Eye</li> </ul>
10.	<b>Metals and Non-Metals</b> <ul style="list-style-type: none"> <li>• Classification</li> <li>• Physical and Chemical properties</li> </ul>
11.	<b>Fuel and Combustion</b> <ul style="list-style-type: none"> <li>• Types of combustion</li> <li>• Classification of Fuels</li> </ul>
12.	<b>Natural resources</b> <ul style="list-style-type: none"> <li>• Fossil Fuels: Coal and Petroleum</li> </ul>
13.	<b>General Concepts. Universe, Pollution, Natural Phenomenon</b>

## **SUBJECT : HINDI**

S.NO	TOPICS
1.	Unseen Comprehension
2.	Verb and its types
3.	Adverb and its types
4.	Punctuation
5.	Joining ( Swar Sandhi )
6.	Prefix and Suffix
7.	Characters Separation ( Varna Viched)
8.	Sentences and its types
9.	Completing and writing meanings of Idioms
10.	Essay Writing
11.	Letter Writing (Formal Letter)
12.	Dialog Writing

## **SUBJECT : ENGLISH**

	TOPICS
1.	<b>Reading Skills:</b> 1. Unseen Comprehension Passage
2.	<b>Writing Skills:</b> 1. Guided Story Writing 2. Essay Writing 3. Diary Writing 4. Book Reviews 5. Factual Description of People, objects, places and events 6. Article Writing 7. Formal Letter Writing 8. Caption Writing 9. Book Reviews

3.

**Language Skills/Grammar:**

1. Adjectives: degrees of comparison, Prepositions, Adverbs, Pronouns, Conjunctions
2. Change of Voice
3. Reported Speech
4. Tenses and Question Tags
5. Synonyms and Antonyms
6. Determiners & Modal Auxiliaries
7. Jumbled words to form meaningful sentences
8. Kinds of Sentences. (Transformation)
9. Articles, Short forms (contractions)

