

GANGA INTERNATIONAL SCHOOL

<u>CLASS – IX</u>

ENGLISH

í,	S.NO.	TOPIC	
	1.	READING SKILLS	Unseen Comprehension
	2.	WRITING SKILLS	Notice, Letter writing(Formal & Informal), Paragraph writing, Story Writing, Diary writing, Message Writing , Email writing , Article Writing , Speech writing, Biographical Sketch.
	3.	GRAMMAR	Nouns, Adjectives, Pronouns, Tenses, Verb, Active/Passive Voice, Direct/Indirect Narration, Modals, Determiners, Adverbs, Prepositions, Connectors, Synonyms/Antonyms, Idiomatic Expressions, Articles.

SCIENCE

S.NO.	TOPIC	CONTENT
1.	CROP PRODUCTION	Crop Plants, Methods of Crop Production, Green Revolution, Nitrogen Cycle, Types of Crops.
2.	MICROORGANISMS	Types of microorganism, shape, nutrition, reproduction of bacteria, harmful & useful bacteria, size & structure of algae, useful & harmful algae, protozoa-useful & harmful, kinds of fungi- reproduction, useful & harmful, viruses-size & structure shape, useful & harmful.
3.	MAN MADE MATERIALS	Man-made materials, Polymers & Plastics, Synthetic fibers.
4.	METALS & NON- METALS	Occurrence, properties, uses of metals and non-metals, reactivity series of metals, corrosion of metals, alloys, Methods of prevention of Corrosions.
5.	FUELS & COMBUSTION	Characteristics of good fuel, classification of fuels, fossil fuels, combustion and conditions necessary for combustion, zones of candle flame, parts of extinguisher and its working.
6.	CONSERVATION OF FORESTS AND WILD LIFE	Bio diversity, flora & fauna, conservation of forests and wildlife.

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7.	CELLULAR LEVEL OF ORGANISATION	The cell theory, unicellular & multicellular organisms, plant & animal cells, Various Cell Organelles and their functions, growth & division.
9.	REPRODUCTION	Sexual reproduction, Development in multicellular organisms, Internal & External Fertilization, endocrine glands. Puberty and adolescence, Endocrine System, Related organs and hormones, Metamorphosis.
10.	FORCE & PRESSURE	Types of forces and its effects, force of friction & its effects on us, pressure & its application in our daily life, pressure by liquids, the atmospheric pressure. Types of friction, Advantages and Disadvantages of Friction How to increase and decrease friction.
11.	SOUND	How is sound produced, characteristics of sound, how does sound travel in a medium, functioning of human ear, reflection of sound and its applications, musical sound and noise.
12.	ELECTRIC CURRENT	Electric Current and its source, Potential Difference, Electric Circuits, Conductors and insulators, Chemical Effect of Current, Hazards of electricity.
13.	LIGHT	Types of reflection (regular, multiple and diffused), Laws of reflection, Characteristics of image formed by plane mirror
14.	COAL AND PETROLEUM	Occurrence, Fractional Distillation, Uses of by products, Destructive distillation of coal.
15.	SOME NATURAL PHENOMENA	Concept of charges, Lightening, Gold Leaf electroscope, Earthquake (precautions mainly).
16.	REFRACTION AND DISPERSION OF LIGHT	Refraction of light, refraction by Glass slab, Lenses, Structure of human eye, Role of nutrition in relation to blindness.
17.	THE UNIVERSE	The universe, galaxies, stars, planets, satellites, and constellations Measuring distances in the universe, The solar system, The origin of the Universe, Earthquakes.
18.	POLLUTION OF AIR AND WATER	Pollution and conservation of water, Pollution and conservation of air.

MATHEMATICS

S.NO.	TOPIC	CONTENT
1.	RATIONAL NUMBERS	Addition, Subtraction, Multiplication & Division of Rational Numbers, Properties of Rational Numbers, Representation of Rational Numbers on Number line.
2.	ALGEBRA	Linear Equations in One Variable & its Applications. Algebraic Expressions: - Addition, Subtraction & Multiplication. Factorization:- By Grouping, Using Identities & Splitting Middle Terms of Quadratic Expressions. Division of Polynomials (By Long Division Method).
3.	COMMERCIAL MATHEMATICS	Percentage, Profit & Loss, Discount, Sales Tax & VAT, Compound Interest & its Applications.
4.	RATIO & PROPORTIONS	Direct & Inverse Proportions, Time & Work.
5.	MENSURATION	Area of Polygons, Volume & Surface Area of Cube, Cuboids & Cylinder.
6.	EXPONENTS & POWER	Laws of Exponents & use of Exponents.
7.	SQUARES & SQUARE ROOTS, CUBES & CUBE ROOTS	Square and Square roots of Integers & Rational Numbers, Pythagorean Triplets. Cubes & Cube Roots of Integers & Rational Numbers.
9.	GEOMETRY	Types of Polygons, Sum of Angles of Regular Polygons (Interior & Exterior), Finding of Numbers of Diagonals, Types of Quadrilaterals & Their Properties, Constructions of Quadrilaterals. Visualizing Solid Shapes:- Applications of Euler's Formula
10.	STATISTICS	 Data Handling:- Classification & Tabulation of Data, Bar Graphs, Histograms, Pie Charts & Probability. Introduction to Graph:- Cartesian Co-ordinates of A Point, Reading & Drawing Linear Graphs & Its Applications.

HINDI

- प्रवेश परीक्षा हेतु पाठ्यक्रम (कक्षा आठवीं तक को आधार मानकर)
- अपठित गद्यांश
- पत्र लेखन औपचारिक/ अनौपचारिक
- व्याकरण
- संज्ञा, सर्वनाम, विशेषण, क्रिया, क्रिया- विशेषण, समास, मुहावरे ।
- रचनात्मक लेखन -
- चित्र वर्णन, संवाद लेखन।