

Mental Ability

- ✓ Analogy
- ✓ Geometrical Figure Completion
- ✓ Mirror images
- ✓ Punched Hold Pattern-
Folding/unfolding
- ✓ Space visualization
- ✓ Embedded figures
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Arithmetic

- ✓ Conversion of fractions to decimals and
vice - versa
- ✓ Applications of number in measure
length
- ✓ mass
- ✓ capacity
- ✓ time
- ✓ money
- ✓ Approximation of expressions
- ✓ Simplification of Numerical Expressions
- ✓ Percentage and its applications
- ✓ Perimeter
- ✓ Area and volume
- ✓ Number System
- ✓ Four fundamental operations on the
whole number
- ✓ Fractional number and four
fundamental operations on them

- ✓ Factors and multiple including their
properties
- ✓ LCM and HCF of numbers
- ✓ Decimals and fundamental operations
on them
- ✓ Profit and loss
- ✓ Simple interest
- ✓ Distance
- ✓ Time and speed

Language

- ✓ Comprehension
- ✓ Grammar
- ✓ Vocabulary

Class 9th

English

- ✓ Tense forms
- ✓ Reported speech
- ✓ Use of prepositions
- ✓ Comprehension (Unseen Passage)
- ✓ Word and Sentence
- ✓ Structure Spelling
- ✓ Passivation
- ✓ Rearranging jumbled words
- ✓ Use of degrees of comparison
- ✓ Modal auxiliaries

General Science

- ✓ Food - Crop Production and
Management; Micro-organism; Food
Preservation
- ✓ Materials I - Synthetic fiber; Plastics;
Metals and Non - metals
- ✓ Material II - Coal and Petroleum;
Refining of Petroleum; Fossil Fuels;
Combustion and Flame

- ✓ Living / Non-living; Cell Structure and Function; Conservation of Plants and Animals - Wildlife Sanctuary and National Parks
- ✓ Reproduction - Asexual and Sexual Reproduction, Reaching the age of adolescence
- ✓ Force - Frictional Force; Gravitational Force; Thrust and Pressure
- ✓ Light - Reflection of Light; Multiple Reflection; Human eye; Care of the Eyes; Sound; Human ears; Loudness and Pitch, Audible and inaudible Sounds
- ✓ Chemical Effects of Electric Current; Electroplating
- ✓ Natural Phenomena - Lightning; Earthquakes, Pollution of Air and Water
- ✓ Solar system; Stars and Constellations.

- ✓ Comparing Quantities (Percentage, Profit and Loss, Discount, Simple and Compound Interest)

Mathematics

- ✓ Algebraic Expressions and Identities including Factorization
- ✓ Linear Equations in One Variable
- ✓ Understanding Quadrilaterals (Parallelogram, rhombus, rectangle, square, kite)
- ✓ Data Handling (Bar graph, pie chart, organizing data, probability)
- ✓ Mensuration: Area of plane figures & Surface area and volume of cube, cuboids, and cylinder
- ✓ Rational Numbers
- ✓ Squares and Square Roots
- ✓ Cubes and Cube Roots
- ✓ Exponents and Powers
- ✓ Direct and Inverse Proportions