**Kerala Class 9 English Syllabus**

The following is the Kerala Board English Syllabus for Class 9:

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| Part - I | Part - II |
| Unit 1 - Aspire to Win | Unit 4 - Dawn of Hope |
| Unit 2 - Bonds of Love | Unit 5 - Enlightening Souls |
| Unit 3 - Care for the Morrow |  |

**Kerala Class 9 Mathematics Syllabus**

The following is the Kerala Board Mathematics Part I Syllabus for Class 9:

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| Mathematics Part I Units | Topics |
| 1. Area | * Quadrilateral and Triangle * Triangle division |
| 2. Decimal Forms | * First forms * New forms * Recurring decimal * A Reverse through * Two forms |
| 3. Pairs of Equations | * Mental Math and Algebra * Two Equations * Some other Equations |
| 4. New Numbers | * Lengths and Numbers * Measures and Numbers * Addition and Subtraction * Multiplication * Division |
| 5. Circles | * Circles and Lines * Equal chords * Length of Chords * Points and Circles |
| 6. Parallel Lines | * Parallel Division * Triangle Division |
| 7. Similar Triangles | * Angles and Sides * Sides and Angles * The Third way |

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| Mathematics Part II Units | Topics |
| 8. Polynomials | * Algebra of Measures * Special Expressions |
| 9. Circular Measures | * Circle and Polygons * Diameter and Perimeter * A new number * Area * Length and Angle * Angle and Area |
| 10. Real Numbers | * Points and Numbers * Algebra |
| 11. Prisms | * Different bases * Volume * Area * Cylinder * Curved Surface |
| 12. Proportions | * Constancy in Proportionality * Different Proportions |
| 13. Statistics | * Average * Frequency tables |

**Kerala Class 9 Physics Syllabus**

The following is the Kerala Board Physics Part I Syllabus for Class 9:

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| Physics Part I Units | Topics |
| 1. Forces in Fluids | * How to Measure Buoyancy * Factors that Influence Buoyancy * Archimedes’ Principle * Floatation * Relative Density * Pascal’s Law * Capillarity * Viscous Force |
| 2. Equations of Motion | * Motion - Graphic Representation * What is a Graph? * What is the use of a Graph? * Position Time Graph * Velocity - Time Graph * Equations of Motion * Equation showing Velocity - Time Relation * Equation showing Position - Time Relation |
| 3. Motion and Laws of Motion | * Unbalanced External Force and Motion * Observations of Galileo * Newton’s First Law of Motion * Mass and Inertia * Momentum * Newton’s Second Law of Motion * Impulse * Newton’s Third Law of Motion * Law of Conservation of Momentum * Circular Motion |
| 4. Gravitation | * Universal Law of Gravitation * Force of Gravity * Acceleration due to Gravity * Mass and Weight * Freefall |

**Kerala Board Physics Part II Syllabus for Class 9:**

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| Physics Part II Units | Topics |
| 5. Work, Energy and Power | * Work * Energy * Kinetic Energy * Work Energy Principle * Potential Energy * Law of Conservation Energy * Power |
| 6. Current Electricity | * Electric Current * Ohm’s Law * Resistors |
| 7. Wave Motion | * Wave Motion * Transverse Wave * Characteristics of Wave * Amplitude * Wavelength * Period * Frequency * Speed of a wave * Longitudinal Wave * Sound * Speed of Sound * Reflection of Sound * Multiple Reflection of Sound * Situations making use of Multiple Reflection * Reverberation * Echo * Acoustics of Buildings * Ultrasonic Sound * Uses of Ultrasonic waves * SONAR (Sound Navigation and Ranging) * Seismic Waves and Tsunami |

**Kerala Board Chemistry Part II Syllabus for Class 9:**

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| Chemistry Part II Units | Topics |
| 5. Acids, Bases, Salts | * Common Component in Acids * Basicity of Acids * Alkalies * Arrhenius’ Theory * Neutralisation Reaction * pH value * Salts * Uses of Salts |
| 6. Non-Metals | * Hydrogen * Let us Prepare Hydrogen * Some Reactions of Hydrogen * Hydrogen as a Fuel * Oxygen - The breath of Life * Presence of Oxygen in Nature * Lets Prepare Oxygen * Ozone * Ozone Layer Depletion * Nitrogen * Chlorine * Preparation of Chlorine * Bleaching Action of Chlorine * Chemistry of Bleaching * Uses of Chlorine * Identification of Chlorides |
| 7. The World Of Carbon | * Presence of Carbon in Nature * Allotropes of Carbon * Diamond * Graphite * Amorphous carbon * Carbon dioxide (CO2) * Uses of Carbon dioxide * Carbon monoxide (CO) * Carbonates and Bicarbonates * Organic Compounds * Catenation |

**Kerala Class 9 Biology Syllabus**

The following is the Kerala Board Biology Part I Syllabus for Class 9:

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| Biology Part I Units | Topics |
| 1. Protectors of Biosphere | * Pigments in Leaves * The Chemistry of Photosynthesis * After Photosynthesis * Ocean at par with Land * Plants - Earth’s Wealth |
| 2. Food Through Digestive Tract | * Food inside Mouth * Saliva and Digestion * Food through Oesophagus * Food inside the Stomach * Food in the Small Intestine * Absorption begins * In and out of the Large Intestine |
| 3. SImple Nutrients into Cells | * Plasma * Heart - Vein, Artery and Capillaries * Working of the Heart * Double Circulation * Simple nutrients to the Heart * Portal Circulation * Heartbeat, Pulse, Blood pressure * Variation in Blood Pressure * From the Blood to the Cell * A Healthy Heart - Vital for Life * Transportation in Plants * Conduction through Xylem * Transport through Phloem |
| 4. Breathing for Energy | * Atmospheric Air into the Lungs * Exchange of Gases in the Alveoli * Oxygen into Cells * To release energy * Expulsion of Carbon dioxide * When carbon dioxide becomes excessive * Respiration without oxygen! * Fermentation in Daily Life * Do not damage the Respiratory system * Vital Capacity * Let’s measure vital capacity * Respiration in other Organisms * Do Plants breathe? |

**Kerala Board Biology Part II Syllabus for Class 9:**

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| Biology Part II Units | Topics |
| 5. Excretion to Maintain Homeostasis | * Excretory Organs * Liver - The Waste Processing Unit * Formation of Sweat * Kidneys * Formation of Urine * Kidneys and Maintenance of Homeostasis * Kidney Diseases * Haemodialysis * Kidney Transplantation * Excretion in other Organisms * Do plants excrete? |
| 6. The Biology of Movement | * Importance of Exercise * Involuntary Movements * Types of Muscles * Muscles Fatigue * Bones and Movement * Joints and Movements * Skeleton outside the Muscles * Locomotion without Skeleton * Paramecium * Euglena * Earthworm * Locomotion and Movement * Do Plants Move? |
| 7. Division for Growth and Reproduction | * Mitosis * Karyokinesis * Cytokinesis * Different stages of Growth * Characteristics of Old age * Growth in Unicellular Organisms |

**Kerala Class 9 Social Science Syllabus**

The following is the Kerala Board Social Science Syllabus for Class 9 from Part 1:

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| Social Science 1 Part 1 | Topics |
| 1. Medieval World: Centres of Power | * The Holy Roman Empire * The Arab Empire * The Ottoman Empire * The Mongol Empire * The Mali Empire * China and Japan * Medieval America * Decline of Feudalism |
| 2. East and the West: Era of Exchanges | * The Cities of Medieval World * The Eastern Cities * The Guilds * Medieval Education * Art and Literature * Science |
| 3. Indian Constitution: Rights and Duties | * Fundamental Rights * Right to Equality * Right to Freedom * Right Against Exploitation * Right to Freedom of Religion * Cultural and Educational Rights * Right to Constitutional Remedies * Fundamental Duties |
| 4. Medieval India: Concept of Kingship and Nature of Administration | * Local Administration * Iqta System * Market Reforms * The Mughal Administration * Din-i-Ilahi (Tauhid-i-Ilahi) * Mansabdari System * Jagirdari System * The Chola Administration * The Village Autonomy * The Vijayanagara Empire * The Nayankara System * The Ayyagar System * The Maratha Administration * The Local Administration of the Marathas |
| 5. Society and Economy in Medieval India | * Agricultural Progress in Medieval India * Handiwork and Handicraft * Trade and commerce * The cities in Medieval India * Medieval Indian Society * Slavery * Status of Women * Caste System |
| 6. India, the Land of Synthesis | * The Sufi Movement * The Bhakti Movement * The Alwars and the Nayanars * The Virashaiva Movement * The Bhakti Movement in North India * Women Representation in Bhakti Movement * Growth of Regional Languages * Music * Architecture and Painting |
| 7. Kerala: From Eighth to Eighteenth Century | * Swaroopams * Rights on Land * Agriculture and Occupational Groups * Trade Relations * Cultural Synthesis * Societal Controls * Language, Literature, Art and Science |
| 8. Election and Democracy | * Simple Majority System * Proportional Representation * Constituencies * Reserved Constituencies * Free and Fair Election * Universal Adult Franchise * The Right to Contest in Election * Independent Election Commission * Undesirable tendencies of the Indian Election System * Electoral Reforms * Election and Political Parties * Coalition Politics and Election * Psephology |
| 9. Towards a Bright Future | * Social problems and solutions * Poverty * Unemployment * Problem of shelter * Insecurity of old age people * Violence against Women * Use of intoxicants * Juvenile crimes * Cybercrimes * Crimes against children |
| Social Science 2 Part 1 | **Topics** |
| 1. Sun: The Ultimate Source | * Process of heat transfer in the atmosphere * Heat Budget * Temperature * Factors influencing the Distribution of Temperature * Water in the Atmosphere * Precipitation * Rain occurs Differently |
| 2. The Signature of Time | * Plates Move * Convergent Margins * Divergent Margins * Transform Margins * Earthquake * Tsunami * Volcanoes |
| 3. National Income | * National Income * Some Important Concepts of National Income |
| 4. By the Hands of Nature | * Landforms * Are Flood plains a boon? * Some Coastal Scenarios * Along the Sandy Stretches * On the Snow-Clad Mountains |
| 5. Ocean and Man | * Oceans at a Glance * Islands and Peninsula * Distribution of Ocean Temperature * Salinity of Seawater * Density of Seawater * Waves * Tides * Spring tides and Neap tides * Ocean Currents * Climate * Mineral deposits * Power Generation * Oceans as a Source of Food |
| Social Science 2 Part 2 | **Topics** |
| 6. Economic Growth and Economic Development | * Economic Growth * Economic Growth Rate * Economic Development * Development indices * Challenges faced by development in India * Sustainable Development |
| 7. For a Safer Future | * Diversities in Environment * Environmental Protection: What? Why? * The Disaster intensity of Earthquakes in India * Earthquake disaster intensity in Kerala * The Flood Hazard * Government Mechanism for Disaster Management |
| 8. Population, Migration, Settlements | * Distribution of Population * Population Growth * Migration * Settlements * Problems Faced by Urban Centres |
| 9. Economic Systems and Economic Policies | * Capitalist Economy * Socialist Economy * Mixed Economy * Changing Economic Politics * Liberalisation * Privatisation * Globalisation * World Trade Organisation (WTO) * Multinational Companies * Marketisation |