**Kerala Class 9 English Syllabus**

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

|  |  |
| --- | --- |
| 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:

|  |  |
| --- | --- |
| 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
 |

|  |  |
| --- | --- |
| 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:

|  |  |
| --- | --- |
| 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:**

|  |  |
| --- | --- |
| 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:**

|  |  |
| --- | --- |
| 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:

|  |  |
| --- | --- |
| 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:**

|  |  |
| --- | --- |
| 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:

|  |  |
| --- | --- |
| 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
 |