**Gujarat Board Class 10 Syllabus**

**English First Language**

**Prose**

* A Short Monsoon Diary
* The Man who found the Titanic
* Too Dear
* You’ve Got To Find What You Love
* The Dear Departed
* A Petition Of The Left Hand
* On The Rule Of The Road
* In Praise Of Technology
* The Gold Frame
* Letter To Daughter
* One Full, One Half
* Pushing Yourself To Limits

The Danger Of Lying In Bed

**Poetry**

* Leave This Chanting
* The Way Through The Woods
* The Mirror
* The Rum Tum Tugger
* A Bird Came Down The Walk
* On Killing A Tree
* I Will Meet You Yet Again

Dreamers

**Supplementary Reading**

* The Parson’s Pleasure
* Out Of Africa
* My Unforgettable Guru

**English Second Language**

**Prose**

* Against the Odds
* The Human Robot
* An Interview with Arun Krishnamurthy
* A Wonderful Creation
* Playing with Fire
* I Love You, Teacher
* Kach & Devyani
* Our Feathered Friends
* Tune up O Teens
* Test of True Love

**Poetry**

* My Song
* Pencil
* Growing
* Vanilla Twilight

**Science**

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| **Chapters** | **Topics** |   |
| Chemical Substances-Nature and Behavior | Chemical reactions: Chemical equation, balanced chemical equation, implications of a balanced chemical equation, types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, neutralisation, oxidation and reduction. |   |
| Acids, bases and salts: Their definitions in terms of furnishing of H+ and OH– ions, general properties, examples and uses, the concept of pH scale (Definition relating to logarithm not required), the importance of pH in everyday life; preparation and uses of sodium hydroxide, bleaching powder, baking soda, washing soda and plaster of paris. |   |
| Metals and Nonmetals: Properties of metals and non-metals; reactivity series; formation and properties of ionic compounds; basic metallurgical processes; corrosion and its prevention. |   |
| Carbon compounds: Covalent bonding in carbon compounds. Versatile nature of carbon. Homologous series. Nomenclature of carbon compounds containing functional groups (halogens, alcohol, ketones, aldehydes, alkanes and alkynes), the difference between saturated hydrocarbons and unsaturated hydrocarbons. Chemical properties of carbon compounds (combustion, oxidation, addition and substitution reaction). Ethanol and Ethanoic acid (only properties and uses), soaps and detergents. |   |
| Periodic classification of elements: Need for classification, early attempts at classification of elements (Dobereiner’s Triads, Newland’s Law of Octaves, Mendeleev’s Periodic Table), modern periodic table, gradation in properties, valency, atomic number, metallic and non-metallic properties. |   |
| World of Living | Life processes: ‘Living Being’. Basic concept of nutrition, respiration, transport and excretion in plants and animals.Control and coordination in animals and plants: Tropic movements in plants; Introduction of plant hormones; Control and coordination in animals: Nervous system; Voluntary, involuntary and reflex action; Chemical coordination: animal hormones. |   |
| Reproduction: Reproduction in animals and plants (asexual and sexual) reproductive health-need and methods of family planning. Safe sex vs HIV/AIDS. Child bearing and women’s health. |
| Heredity and Evolution: Heredity; Mendel’s contribution- Laws for inheritance of traits: Sex determination: brief introduction; Basic concepts of evolution. |   |
| Natural Phenomena | Reflection of light: Reflection of light by curved surfaces; Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length, mirror formula (Derivation not required), magnification. Refraction; Laws of refraction, refractive index. |
| Refraction: Refraction of light by spherical lens; Image formed by spherical lenses; Lens formula (Derivation not required); Magnification. Power of a lens. Functioning of a lens in the human eye, defects of vision and their corrections, applications of spherical mirrors and lenses. Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life. |   |
| Electric Current & Magnetic Effects | Effects of Current: Electric current, potential difference and electric current. Ohm’s law; Resistance, Resistivity, Factors on which the resistance of a conductor depends. Series combination of resistors, parallel combination of resistors and its applications in daily life. Heating effect of electric current and its applications in daily life. Electric power, Interrelation between P, V, I and R. |   |
| Magnetic effects of current : Magnetic field, field lines, field due to a current carrying conductor, field due to current carrying coil or solenoid; Force on current carrying conductor, Fleming’s Left Hand Rule, Electric Motor, Electromagnetic induction. Induced potential difference, Induced current. Fleming’s Right Hand Rule, Electric Generator, Direct current. Alternating current: frequency of AC. Advantage of AC over DC. Domestic electric circuits. |   |
| Natural Resources | Management of natural resources: Management of natural resources, conservation and judicious use of natural resources, forest and wildlife, Coal and petroleum conservation. Examples of people’s participation in conservation of natural resources. |   |
| The regional environment: Big dams, its advantages and limitations, alternatives if any, Water harvesting, Sustainability of natural resources. |   |
| Sources of energy: Different forms of energy, conventional and non-conventional sources of energy: Fossil fuels, solar energy; biogas; wind, water and tidal energy; Nuclear energy. Renewable versus non-renewable sources of energy. |   |
| Our environment: Eco-system, Environmental problems, Ozone depletion, waste production and their solutions. Biodegradable and non-biodegradable substances. |   |

|  **Social Science**  |
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| Chapter No. | Chapter Name | Topics |
| Chapter 1 | Heritage of India | India: Location and area, rich and varied heritage, the meaning of culture, cultural heritage of India, natural heritage of India, Cultural heritage of Gujarat, fairs of Gujarat, India: Land and people, Preservation and conservation of Heritage. |
| Chapter 2 | Cultural Heritage of India: Traditional Handicraft and Fine Arts | Introduction, Art of Indian Artisans, Art Clay Work, Art of Weaving, Art of Embroidery, Leather Industry, Diamond Beadwork and Enamel Work, Jari Work, Metal Work, Wooden Art, Inlay Work, Akik Work, Painting, Fine Arts of India, Music, Art of Dance, Bharatanatyam, Kuchipudi, Kathakali, Manipuri Dance, Dramatic Art, Bhavai, Folk Dance of Gujarat, Tribal Dance, Garba, Rasa, Other Dances of Gujarat. |
| Chapter 3 | Cultural Heritage of India: Sculpture and Architecture | Interaction, Sculpture, Architecture, Ancient Indian Town Planning, Mauryan Art, Pillar Inscription, Pillar at Sarnath, Stone Inscription, Dravid Style of Art In South India, Art of Gupta Period, Cave Architecture, Caves of Gujarat, Chariot Temple, Temple Architecture, Architecture of Gopuram, Linear Sketch of Temple, Jain Temple, Medieval Architecture, Architecture of Gujarat, Information About Linear Sketch of Mosque. |
| Chapter 4 | Literary Heritage of India | Language and Literature, Ancient Indian Literature, Mediaeval Literature, The Ancient Universities of India. |
| Chapter 5 | India's Heritage of Science and Technology | Heritage of Ancient India in the Field of Science and Technology, Metallurgy, Chemistry, Science of Medicine and Surgery, Mathematics, Astronomy and Astrology, Vastushastra. |
| Chapter 6 | Places of Indian Cultural Heritage | Caves of Ajanta, Ellora caves, Elephanta Caves, Mahabalipuram, Pattadakal Memorial, Temples at Khajuraho, Sun Temple of Konark, Brihadeshwara Temple, Qutub Minar, Hampi, Humayun's Tomb, Fort of Agra, Taj Mahal, Red Fort, Fatehpur Sikri, Churches of Goa, Champaner, Places of Cultural Heritage of Gujarat, Dholavira and Lothal, Junagadh, Ahmedabad, Patan, Places of pilgrimages of India. |
| Chapter 7 | Preservation of Our Heritage | Need for the Preservation of Cultural Heritage, Necessity of Preservation of Cultural Heritage, Tourism Industry and Our Heritage, Preservation of Heritage and Measures of Conserve, Ancient Memorial and Archaeological Sites and Remains Act, Our Role in Preservation of Museum, Our Role in Preservation of Heritage, Cleanliness and Preservation of Picnic Spots, India: Unity in Diversity. |
| Chapter 8 | Natural Resources | Uses of Resources, Types of Resources, Planning and Conservation of Resources, Soil Formation, Soil, Types of Soil, Soil Erosion, Measures to Prevent Soil Erosion, Conservation, Remedies of Soil Conservation. |
| Chapter 9 | Forest and Wildlife Resources | Classification of Forest, Types of Forest According to Administration, Classification of Forest According to Ownership, Administration and Management, Deforestation, Impact of Deforestation, Remedies of Forest Conservation, Wildlife Diversity, Wildlife Of Extinction, Reasons for the Destruction of Wildlife, Measures of Preservation of Wildlife, Wildlife Protection Scheme, Sanctuaries, National Parks and Biosphere Reserves. |
| Chapter 10 | India: Agriculture | Types of Farming, Forming Methods, Agriculture Products of India, Hot Beverages, Cash Crops, Technical Reforms, Green Revolution, Role of Agriculture in Indian Economy, Impact of Globalisation of Indian Agriculture. |
| Chapter 11 | India: Water Resources | Sources of Water, Water Resources and Uses, Distribution of Area Under Irrigation, Water Crisis, Management and Conservation of Water Resources, Watershed Development, Rainwater Harvesting, Main Objectives of Rainwater Harvesting, Points should be Considered for Water Management. |
| Chapter 12 | India: Mineral and Energy Resources | Mineral, Iron Ore, Manganese, Copper, Bauxite, Mica, Lead, Limestone, Mineral of Energy Resources, Classification of Energy Resources, Coal, Indian Coal Reserves, Mineral Oil, Oil Face of Gujarat, Mineral Oil Refining, Natural Gas, Non Conventional Energy Resources, Solar Energy, Wind Energy, Biogas, Geothermal Energy, Tidal Energy, Mineral Preservation, Remedies for Mineral Preservation. |
| Chapter 13 | Manufacturing Industries | Importance of Industries, Classification of Industries, Agro Based Industries, Cotton Textile Industry, Jute Textile Industry, Silk Textile Industry, Woolen Textile Industry, Synthetic Textile Industry, Sugar Industry, Paper Industry, Mineral Based Industries, Iron and Steel Industries, Aluminium Refining Industries, Corporate Training, Chemical Industry, Chemical Fertilizer Industry, Cement Industry, Transport Equipment Industry, Railway, Road Vehicles, Shipbuilding Industry, Electronic Industry, Industrial Pollution and Environmental Degradation, Remedies of Curb Environmental Degradation. |
| Chapter 14 | Transport Station, Communication and Trade | Transportation, Road for Land Transportation, Classification of Indian Roadways, National Highway, State Highway, District Roads, Village Roads, Border Roads, Traffic Problems, Some Suggestions to Remove Traffic Problems, Railway, Progress Of Railway, Waterway, Transportation by River Canal, Ocean Waterway, Airways, Other Means of Transportation, Communication, Individual Communication System, Mass Communication System, Satellite Communications, Trade, Internal Trade, International Trade, Important Trade Of India, Export Trade Of India. |
| Chapter 15 | Economic Development | Economic Development, Difference Between Economic Progress and Economic Development, Features of Developing Economy, Economic and Non Economic Activities, Structure of Indian Economy, Factors of Production, Distribution of Factors of Production, Methods of Inerting of Resources, Marketing System, Features of Market Mechanism System, Benefits of Market Mechanism System, Limitations of Market Mechanism System, Socialist System, Features of Socialist System, Benefits of Socialist System, Limitations of Socialist System, Mixed Economy. |
| Chapter 16 | Economic Liberalisation and Globalisation | Economic Liberalisation, Advantages of Liberalisation, Disadvantages of Liberalisation, Privatisation, Advantages of Privatisation, Disadvantages of Privatisation, Globalisation, Effects of Globalisation, World Trade Organisation (WTO), Impacts of Indian Economy, Sustainable Development, Strategies to be Adopted for Conservation and Preservation of Natural Resources, Step Taken to Protect Environment. |
| Chapter 17 | Economic Problems and Challenges: Poverty and Unemployment | Poverty, People Living Below Poverty Line, Measurement of Poverty, Poverty In India, Reasons of Poverty, Strategy of Poverty Eradication, Poverty Elevation Programme, Unemployment, Proportion of Unemployment in India, Efforts to Reduce Unemployment, World Labour Market. |
| Chapter 18 | Price Rise and Consumer Awareness | Reasons for Price Increase, Increase in Monetary Supply, Population Growth, Increase in Export, High Price of Raw Material, Usage of Non Registered Currency, Price Rise by Government, Natural Factors, Smuggling and Black Marketing, Why Prices Should Be Controlled?, Steps Taken to Control Price Rise, Consumer Awareness, Forms of Consumer Exploitation, Reasons of Consumer Exploitation, Consumer Awareness in Consumer Protection, Legislation Concerning Consumer Rights, Related to Consumer Service, Rights of Consumers, Duties of Consumer, Measures of Consumer Protection, Consumer Society, Public Distribution System, System Certified Weights and Measures and Purity of Goods, Organisation at the International Level, Who Can File a Complaint? Where? How to File a Complaint? |
| Chapter 19 | Human Development | Meaning of Human Development, Human Development Index, Human Development Report, Challenges of Human Development, Health, Sex Ratio, Women Empowerment, Women Welfare Schemes, Steps Taken to Stop Women Exploitation, Where Is Schemes of Gujarat Government for Providing Equality to Women. |
| Chapter 20 | Social Problems of India and Challenges | Communalism, Struggles Against Communism, Castism, Constitutional Provisions for Protection of Interest of the Minorities, Week and Backward Classes, Minorities, Scheduled Caste and Scheduled Tribes, Constitutional Provisions, General Provisions, Special Provisions, Provisions of Only for Scheduled Castes, Provisions Only for Scheduled Tribes, Terrorism A Global Problem, Rebellion and Terrorism In India, Insurgents in North East, Terrorism in Kashmir, Social Effects of Terrorism, Economic Impacts of Terrorism. |
| Chapter 21 | Social Change | Awareness About Law And Its Need, Why is it Necessary To Have General Knowledge About Law?, Rights of Citizen, Fundamental Rights Of Citizen, Rights Of Child, Write For Protection Against Exploitation, Child Labour and Neglected Child, Reasons for Child Labour, Efforts for Abolition Child Labour, Protecting the Elderly and Helpless, Anti Social Activities, Corruption, Corruption in Our Country and Foreign Country, Steps to Curb Corruption, Right To Information Act 2005, How to Obtain Information, Provisions for Appeal, Provisions For Fine, Law Regarding Right to Freedom And Compulsory Education 2009 ( RTE 2009), National Food Security Act 2013, Objectives of Food Security Bill, Some Legislative Provisions. |