

ST. THOMAS SCHOOL, LONI
SECONDARY STAGE CURRICULUM

ENGLISH

Teaching Objectives:

- to gain the competence to understand various verbal and non-verbal clues coming from the speaker for comprehending what has been said. One should also be skilled at listening and understanding in a non-linear fashion by making connections and drawing inferences.
- ability to read with comprehension, and not merely decode. A learner should develop the habit of reading in a non-linear manner using various syntactic, semantic and graph phonemic cues.
- to employ effortless communicative skills in a variety of situations. The repertoire must have a range of styles and must be able to engage in discussion in a logical, analytical and creative manner.
- to organise thoughts coherently often using a variety of cohesive devices such as linkers and lexical manipulation through synonymy, etc.
- to understand and use the variety of language being used in other domains such as music, sports, films, gardening, construction work, cookery, etc. as language is never used in a uniform fashion. It has innumerable varieties, shades and colours which surface in different domains and in different situations.
- to develop imagination and creativity uninhibitedly for text transaction and in other appropriate activities.
- to make students sensitive towards surroundings, people and the nation by familiarising students with our rich culture, heritage and aspects of our contemporary life.

हिंदी

हिंदी शिक्षण के उद्देश्य

- आठवीं कक्षा तक भाषा के प्राप्त किए गए ज्ञान के व्यावहारिक प्रयोग के कौशल का विकास करना।

- छात्रों को विभिन्न विधाओं की रचनाओं को पढ़कर उसका वास्तविक अर्थ ग्रहण कर उसके आलोचनात्मक विवेचन योग्य बनाना।
- साहित्य की विभिन्न विधाओं का ज्ञान देना जैसे -कविता , कहानी , निबंध आदि।
- महत्वपूर्ण साहित्यकारों और उनकी रचना शैली का ज्ञान देना।
- छात्रों में कल्पनाशीलता का विकास करना।
- छात्रों को व्यावहारिक जीवन में अपने विचारों की स्वतंत्र रूप से मौखिक और लिखित अभिव्यक्ति के योग्य बनाना।
- छात्रों को प्रभावशाली और सरल रूप में अपने विचारों को अभिव्यक्त करना सिखाना।
- छात्रों को जाति, भाषा, लिंग, वर्ग आदि विविधताओं से सम्बंधित पुराने विचारों से अवगत करवाना।
- सभी विभिन्नताओं से ऊपर उठकर विवेकपूर्ण ढंग से सोचने के लिए प्रेरित करना।
- साहित्य की रचनाओं को पढ़कर आधुनिक परिस्थितियों में उनका औचित्य समझने की योग्यता का विकास।
- आधुनिक काल की समस्याओं पर विचार और समाधान सम्बंधित विचार करने के विवेक का विकास करना।
- हिंदी के मानक और प्रिंटिंग में प्रयुक्त रूप का ज्ञान देना।
- समयानुसार हिंदी में आए परिवर्तन और साहित्यकारों द्वारा प्रयुक्त विभिन्न बोलियों का ज्ञान देना।
- प्रत्येक स्थिति में भाषा का विवेकपूर्ण प्रयोग करना सिखाना।

MATHEMATICS

Teaching Objectives-

- Mathematisation (ability to think logically, formulate and handle abstractions) rather than knowledge of procedures (formal and mechanical).
- Mathematical vocabulary.

- Exploring concepts / series of concepts in several ways to develop and elaborate her understanding of them and the interrelationship between them.
- Developing the processes involved in mathematical reasoning
- Developing the processes of dealing with greater abstractions, moving from particular to general to particular.
- Movement with facility from one representation to another of a concept or process.
- Solving and posing problems.
- Realising as to how and why mathematics is all around us by establishing linkages with one's life and experiences and across the curriculum.
- Seeing connections with what learner has studied so far, consolidate it and try to understand the formal thought process involved.

SCIENCE

Teaching Objectives- Physics

- Develop interest to study physics as a discipline.
- Strengthen the concepts developed in the previous stage to acquire firm ground work and foundation for further learning of physics.
- Apply reasoning to develop conceptual understanding of physics concepts.
- Realise and appreciate the interface of physics with other disciplines.
- Develop process-skills and experimental, observational, manipulative, decision making and investigatory skills.
- Synthesize various science concepts to solve problems and thinking critically in the process of learning physics.
- Understand the relationship between nature and matter on scientific basis, develop positive scientific attitude and appreciate the contribution of physics towards the improvement of quality of life and human welfare.

- Comprehend the contemporary knowledge and develop aesthetics sensibilities.

Teaching Objectives- BIOLOGY

- Identify and develop understanding of concepts, principles, theories and laws governing the physical world around a biological entity.
- Develop ability to acquire and use the methods and processes of science such as observation, questioning, planning investigations, hypothesising, analysing and interpreting data, communicating explanations with evidence, justifying explanations, thinking critically in the biological perspectives.
- Build upon the perceptive of basic tools and techniques used in concepts to analyse various issues in biology.
- Develop scientific temper with respect to biological phenomena
- Conduct experiments, also involving quantitative measurement in biology.
- Nurture natural curiosity, aesthetics sense and creativity in biological processes.
- Imbibe the value of honesty, integrity, concern for life and preservation of environment.
- Connect biological concepts to real life problems and develop innovative problem solving abilities.
- Apply biological discoveries in everyday life.

Teaching Objectives- Chemistry

- Develop an interest in studying chemistry as a discipline.
- Promote understanding of basic principles in chemistry while retaining the excitement in chemistry.
- Develop ability to acquire and use the methods and processes of science such as observation questioning, collecting, analysing the interpreted data, communicating explanations with evidence, thinking critically to consider and evaluate alternative explanations etc.
- Develop positive scientific attitude and appreciate contribution of chemistry towards the improvement of quality of human life.
- Develop problem solving skills and nurture curiosity, aesthetic sense and creativity.
- Develop respect for human dignity and rights, equity and equality.
- Develop an appreciation for chemistry as a career option in future.

SOCIAL SCIENCE

Teaching Objectives- History

- Familiarize with the names of people involved, the different types of ideas that inspired the revolution, the wider forces that shaped it.
- Know the use of written, oral and visual material to recover the history of revolutions.
- Discuss the social and cultural world of forest communities.
- Develop an understanding of the processes of change and development-both in terms of time and space, through which human societies have evolved.
- Make learners realize that the process of change is continuous and any event or phenomenon or issue cannot be viewed in isolation but in a wider context of time and space.
- Develop an understanding of contemporary India with its historical perspective, of the basic framework of the goals and policies of national development in independent India, and of the process of change with appropriate connections to world development.
- Deepen knowledge about and understanding of India's freedom struggle and of the values and ideals that it represented, and to develop an appreciation of the contributions made by people of all sections and regions of the country.
- Familiarize the learner with ways of reconstructing human evolution.
- Discuss whether writing is significant as a marker of civilization.
- Introduce the debate around the idea of 'Renaissance'.
- Discuss the implications of the conquests for the indigenous people.
- Initiate students to the debate on the idea of industrial revolution.
- Make students aware that transformation in the modern world takes many different forms.
- Familiarize the learner with major trends in the political and economic history of the subcontinent.
- Introduce the ways in which new data can lead to a revision of existing notions of history.
- Introduce the strategies of textual analysis and their use in reconstructing social history.
- Familiarize the learner with the salient features of social histories described by the travellers.
- Comprehend the problems and limits of using official sources for understanding the lives of the people.

Teaching Objectives- Civics

- Help learners understand and cherish the values enshrined in the Indian Constitution and to prepare them for their roles and responsibilities as effective citizens of a democratic society.
- Develop conceptual skills of defining democracy.
- Understand how different historical processes and forces have promoted democracy.
- Deepen the knowledge and understanding of India's environment in its totality, their interactive processes and effects on the future quality of people's lives.
- Familiarize with the centrality of power sharing in a democracy.
- Understand the working of spatial and social power sharing mechanisms.
- Understanding about the constitutional amendments made in the recent years in India.
- Understanding the role of judiciary and its functions of the legislature and executive, thus diluting the concept of separation of powers, how it becomes judicial overreach.
- Understanding the different contexts and special features of Federalism.
- Familiarize the concepts of liberty and freedom and how has it been granted to the citizens through the constitution.
- Understanding the concepts of human rights, multiculturalism and nationalism.
- Familiarizing through the concept of growth and development and its different aspects through different models.
- Understanding in detail the Concept and Purpose of the UN and its organisations.
- Problems related to nation building and its different aspects.

Teaching Objectives- Geography

- Understand the major landform features and the underlying geological structure; their association with various rocks and minerals as well as nature of soil types.
- Explain the nature of diverse flora and fauna as well as their distribution.

- Explain the importance of agriculture in national economy.
- Identify various types of farming and discuss the various farming methods; describe the spatial distribution of major crops as well as understand the relationship between rainfall regimes and cropping pattern.
- Explain various government policies for institutional as well as technological reforms since independence.
- Identify different types of minerals and energy resources and places of their availability.
- Understand the need for judicious utilization of resources.
- Familiarize with key concepts, terminology and core principles of Geography.
- Describe locations and correlate with Geographical Perspectives.
- Compare conditions and connections in one place to another.
- Describe and interpret the spatial pattern features on a thematic map.
- Search for, recognize and understand the processes and patterns of the spatial arrangement of the natural features as well as human aspects and phenomena on the earth's surface.
- Understand and analyse the inter-relationship between physical and human environments and utilize such knowledge in reflecting on issues related to community.
- Apply geographical knowledge and methods of inquiry to emerging situations or problems at different levels-local, regional, national and global.
- Develop geographical skills, relating to collection, processing and analysis of spatial data/ information and preparation of report including maps and graphs and use of computers where ever possible; and to be sensitive to issues.

Teaching Objectives- Geography

- Understand the demographic concepts.
- Understand how population can be an asset or a liability for a nation.

- Understand poverty as a challenge.
- Identify vulnerable group and interstate disparities.
- Understand the concept of food security.
- Explain the working of the Global Economic phenomenon.
- Gets familiarized with the rights and duties as a consumer; and legal measures available to protect from being exploited in markets.
- Understand the importance of quality of life and sustainable development.
- Understanding of some basic economic concepts and development of economic reasoning which the learners can apply in their day-to-day life as citizens, workers and consumers.
- Realisation of learners' role in nation building and sensitivity to the economic issues that the nation is facing today.
- Equipment with basic tools of economics and statistics to analyse economic issues. This is pertinent for even those who may not pursue this course beyond senior secondary stage.
- Development of understanding that there can be more than one view on any economic issue and necessary skills to argue logically with reasoning.

COMPUTER

Teaching Objectives:

- To familiarize the students with the world of IT and IT enabled services.
- To provide an in-depth training in use of data entry, internet and internet tools.
- To develop practical knowledge of digital documentation, spreadsheets and presentation in initial stage.
- To enable the students to understand database management system and have updated knowledge about digital record keeping.
- To develop logic for Problem Solving.
- To develop problem solving skills and their implementation.

- To understand the basic concept of Computing Logic.
- To understand the basic concepts of Communication and Networking technologies.
- To understand Open Source concepts.
- To develop basic computational thinking. Learn how to reason with variables, state transitions, conditionals, and iteration.
- To understand the notion of data types, and higher order data structures such as lists, tuples, and dictionaries.
- To appreciate the notion of an algorithm, and understand its structure, including how algorithms handle corner cases.
- To learn all about cyber safety.
- To make the students capable of getting employment in Private Sector, Public Sector, Ministries, Courts, House of Parliament and State Legislative Assemblies.

संस्कृत

शिक्षणोद्देश्यानि :

- भारतीय भाषाणां संरक्षणार्थं।
- बौद्धिकविकासपुरस्सरम् आध्यात्मिकनैतिकज्ञानार्थं ।
- भारतीयसंस्कृतेः संरक्षणम् ज्ञानवर्धनश्च।
- मानवजीवनस्य विकासपूर्वकं कल्याणं।
- संस्कृतभाषाया छात्राणां सर्वविधविकासः।
- भाषाशिक्षण कौशलानि वर्धनाय नैपुण्यप्राप्तिः।
- मानसिकविकासान्नदानुभूतिरसानुभूत्यर्थम्।
- संस्कृतसाहित्यस्य अध्ययनेन ज्ञानानन्दस्य अनुभूतिः।
- आत्मानुशासनसंस्थापनार्थं संस्कृतं आवश्यकं अस्ति।