



MAYO COLLEGE GIRLS' SCHOOL

CLASS X SYLLABUS 2020-21

SUBJECT: ENGLISH LITERATURE

S.No	Month	Chapter No	Content
1	March	Poetry Drama	1 The little match girl 2 Act 3 Scene 2
2	June	Poetry Drama	1 I know why the caged bird sings 2 Act 3 Scene 2 (Contd.)
3	July	Prose Drama	1. The blue bead 2 Act 3 Scene 3 & 4
4	Aug	Poetry Prose Drama	1 The Patriot 2 My greatest Olympic prize 3 Act 3 Scene 5 & Act 4 Scene 1
5	Sep	Poetry Prose Drama	1 Abou Ben Adhem 2 All summer in a day 3 Act 4 Scene 1(Contd.) & Scene 2
6	Oct	Poetry Drama	1 Nine gold medals 2 Act 5
7	Nov		Pre Board Examination I
8	Dec		Winter Coaching
9	Jan		Pre board Examination II

English Language: One Practice Paper from Total English every month.

SUBJECT : HINDI

सत्र	पाठ्य-पुस्तक	पाठ्यक्रम	कक्षा परीक्षा
मार्च - अप्रैल	साहित्यसागर गद्य पद्य भाषा	संदेह (जयशंकर प्रसाद) विनय के पद (तुलसीदास) पत्र-लेखन, अनौपचारिक पत्र, अपठित-गद्यांश। व्याकरण – भाववाचक संज्ञा (कक्षा 9 की पुनरावृत्ति), शुद्ध-अशुद्ध (पृष्ठ संख्या 252) रूठ-शीर्षक, विशेषण (पृष्ठ संख्या 256) पंथ-प्रतीक्षा, विलोम शब्द (पृष्ठ संख्या 261) बंधन- वृष्टि, तत्सम शब्द (पृष्ठ संख्या 272) लाख-सूखा, पर्यायवाची शब्द (पृष्ठ संख्या 276) बचपन-मोक्ष, वाक्य के लिए एक शब्द (पृष्ठ संख्या 282) अनादि -इन्द्रियातीत, मुहावरे (पृष्ठ संख्या 313) 121-131।	संदेह, 10 विनय के पद। व्याकरण। 10 (20)
जुलाई-अगस्त	गद्य पद्य भाषा	भेड़ें और भेड़िए (हरिशंकर परसाई) भिक्षुक (सूर्यकांत त्रिपाठी निराला चलना हमारा काम है (शिवमंगल सिंह सुमन) निबंध-लेखन - विचारात्मक, अनुभव- लेखन, पत्र-लेखन	भेड़ें और भेड़िए, चलना हमारा काम है। 20 निबंध, पत्र

		(औपचारिक पत्र), अपठित-गद्यांश, लोकोक्ति पर कहानी-लेखन। व्याकरण- शुद्ध-अशुद्ध (पृष्ठ संख्या 252) श्रृंगार-हेतु, विशेषण (पृष्ठ संख्या 257) पतन-भाव, विलोम शब्द (पृष्ठ संख्या 261) विद्वान्-सधवा, समोच्चरित शब्द (पृष्ठ संख्या 269) क्षति-नियत, तत्सम शब्द (पृष्ठ संख्या 272-273) मिट्टी-घोड़ा, पर्यायवाची शब्द (पृष्ठ संख्या 276-277) मोर-समूह, वाक्य के लिए एक शब्द (पृष्ठ संख्या 282) दिवंगत-उत्तराधिकारी, मुहावरे (पृष्ठ संख्या 314-315) 132 -149 और 1-30।	10+10=20
सितम्बर, अक्टूबर	गद्य पद्य भाषा	दो कलाकार (मन्नू भंडारी) मातृ मंदिर की ओर (सुभद्रा कुमारी चौहान) पुनरावृत्ति। निबंध-लेखन, पत्र-लेखन, कहानी-लेखन, चित्र-अध्ययन, अपठित-गद्यांश। व्याकरण- विशेषण (पृष्ठ संख्या 257) भारत-विचार, विलोम शब्द (पृष्ठ संख्या 261) संयोग-हेय, समोच्चरित शब्द (पृष्ठ संख्या 270) नीयत-परिजन, तत्सम शब्द (पृष्ठ संख्या 273) चौपाया-सात, पर्यायवाची शब्द (पृष्ठ संख्या 277) सुन्दर-हिम्मत, वाक्य के लिए एक शब्द (पृष्ठ संख्या 282) असाध्य-	दो कलाकार, मातृ मंदिर की ओर। 20 व्याकरण- 10 कहानी-लेखन 10 = 20

		अविश्वसनीय, मुहावरे (पृष्ठ संख्या 316) 31-65	
नवम्बर	गद्य पद्य भाषा	पुनरावृत्ति निबंध-लेखन, पत्र-लेखन, कहानी- लेखन, चित्र-अध्ययन, अपठित-गद्यांश, व्याकरण - विलोम शब्द (पृ. सं. 196), वाक्य के लिए एक शब्द (पृ सं 206,207) अर्द्धवार्षिक परीक्षा	अभ्यास-कार्य
जनवरी फरवरी	गद्य पद्य	पुनरावृत्ति निबंध-लेखन, पत्र-लेखन, कहानी- लेखन, चित्र-अध्ययन, अपठित-गद्यांश, व्याकरण वार्षिक परीक्षा	अभ्यास-कार्य

SUBJECT: MATHEMATICS

S.NO.	MONTH	CHAPTER	Content
1	March	Chapter 16,17 Chapter18,19, 20 Chapter10	Trigonometry(complete unit) Statistics (complete unit) Reflection
2	June	Chapter7 Chapter8 Chapter4	Remainder factor theorem Matrices Linear inequations
3	July	Chapter5 Chapter9 Chapter15	Quadratic Equations Arithmetic Progression & Geometric Progression Cylinder, Cone and Sphere
4	Aug	Chapter6 Chapter1 Chapter2 Chapter3	Ratio and Proportion, Banking, GST Shares and dividends
5	Sept	Chapter11 Chapter12 Chapter14	Coordinate Geometry, Similarity Circles
6	Oct	Chapter14 Chapter13	Tangents and Intersecting Circles, Constructions (circles) , loci
7	Nov		Preboard Examinations I
8	Dec		Winter Coaching
9	Jan		PreBoard Examinations II

SUBJECT: COMMERCIAL STUDIES

S.No	Month	Chapter	Content
1	March	Chapter 2 Chapter 6	Marketing and Sales Capital and Revenue: Expenditure & Income
2	June	Chapter 3 Chapter 4 Chapter 7	Advertising and Sales Promotion Consumer Protection Final Accounts of Sole Proprietorship
3	July	Chapter 1 Chapter 8 Chapter 9	Stakeholders in Consumer Organizations Fundamental Concept of cost Budgeting
4	Aug	Chapter 5 Chapter 6 Chapter 10	E Commerce Recruitment, Selection and Training Sources of Finance
5	Sept	Chapter 12 Chapter 13	Industrial Relation, Trade Union and Social Security Logistics and Insurance
6	Oct	Chapter 15 Chapter 14	Striving for Better Environment Banking
7	Nov		Pre Board Examination I
8	Dec		Winter Coaching
9	Jan		Pre Board Examination II

SUBJECT: Physics

S.No	Month	Chapter No	Content
1	March	Chapter 8	Current Electricity
2	June	Chapter 9 Chapter 10	Household circuit Electro- magnetism
3	July	Chapter 10 Chapter 1 Chapter 2	Electro magnetism continue... Force Work, Energy and Power
4	Aug	Chapter 3 Chapter 4 Chapter 5	Machines Refraction at plane surfaces Refraction through a lens
5	Sep	Chapter 6 Chapter 7 Chapter 11	Spectrum Sound Calorimetry
6	Oct	Chapter 12	Radioactivity Revision
7	Nov		Pre Board Examination I
8	Dec		Winter Coaching
9	Jan		Pre board Examination II

SUBJECT: CHEMISTRY

S.No	Month	Chapter No	Content
1	March	Concept	Study Of Compounds: (1) Hydrochloric Acid (2) Nitric acid (3) Sulphuric Acid
2	June	Concept	Ammonia Periodic Table
3	July	Concept	Mole Concept Stoichiometry Chemical Bonding
4	Aug	Concept	Acid, Bases and Salts Analytical Chemistry Electrolysis
5	Sep	Concept	Organic Chemistry Metallurgy
6	Oct		Revision
7	Nov		Pre Board Examinations I
8	Dec		Winter Coaching
9	Jan		Pre board Examination II

SUBJECT: BIOLOGY

S.No	Month	Chapter	Content
1	June	Concept	(1)Nervous system (2) Sense Organs (3)Circulatory system
2	July	Concept	(1)Absorption by Roots (2)Excretory system (3)Endocrine system
3	Aug	Concept	(1)Transpiration (2)Photosynthesis (3)Chemical coordination in plants
4	Sep	Concept	(1)Reproductive system (2)Population (3) Human evolution
5	Oct	Concept	(1) Cell division and structure of chromosome (2)Genetics
6	Nov		Pre Board Examination I
7	Dec		Winter Coaching
8	Jan		Pre board Examination II

Remarks: Practical's will be conducted side by side for the various topics from the syllabus.

SUBJECT: ENVIRONMENTAL SCIENCE

S.No	Month	Chapter	Content
1	March	Concept	Managing The Urban Environment Biodiversity
2	June	Concept	Waste Controlling Air Pollution
3	July	Concept	Addressing The Population Food
4	Aug	Concept	Managing Soil And Land Energy
5	Sep	Concept	Environment And Development
6	Oct	Concept	Towards A Sustainable Future
7	Nov		Pre Board Examinations I
8	Dec		Winter Coaching
9	Jan		Pre board Examination II

SUBJECT: HISTORY & CIVICS

S.No	Month	Chapter No	Content
1	Mar	1,2	<ul style="list-style-type: none"> • The First War of Independence, 1857 • Growth of Nationalism.
2	Jun	3,4,5 Civics	<ul style="list-style-type: none"> • First Phase of the Indian National Movement. • Second Phase of the Indian National Movement. • Muslim League. Union Legislature
3	Jul	6,7 Civics	<ul style="list-style-type: none"> • Mahatma Gandhi and the National Movement. • Quit India Movement. President and Vice President
4	Aug	8,9 Civics	<ul style="list-style-type: none"> • Forward Bloc and The INA. • Independence and Partition of India. Union Judiciary
5	Sep	10,11,12 Civics	<ul style="list-style-type: none"> • The First World War. • Rise of Dictatorship. • The Second World War. Supreme Court and High Court
6	Oct	13,14,15 Civics	<ul style="list-style-type: none"> • United Nations. • Major Agencies of the United Nations. • Non-Aligned Movement. Subordinate court and Lok Adalat
7	Nov		Preboard Examination II
8	Dec		Winter Coaching
9	Jan		PreBoard Examination II

SUBJECT: GEOGRAPHY

S.No	Month	Chapter	Content
1	March	Chapter	Map work
2	June	Chapter	Climate
3	July	Chapter	Soil Resources Natural Vegetation Water Resources
4	Aug	Chapter	Minerals and Energy Resources Manufacturing Industries
5	Sep	Chapter	Transport Waste Management Agriculture
6	Oct	Chapter	Topography and Map Work
7	Nov		PreBoard Examination I
8	Dec		Winter Coaching
9	Jan		Pre board Examination II

SUBJECT: COMMERCIAL APPLICATIONS

S.No	Month	Chapter No	Content
1	March	Unit 1	Understanding the basics of Markets and Marketing
2	June	Unit 1	Understanding the basics of Markets and Marketing
3	July	Unit 1	Understanding 4 'P's – Product, Price, Place and Promotion. Product life-cycle, Advertising and brand promotion. Definition, concept and types of advertising. Definition of brand, how to bring about brand promotion.
4	Aug	Unit 1 &2	Sales and the selling process, including the difference between marketing and sales; qualities of a good salesman. Understanding Finance (a) Elementary understanding of Generally Accepted Accounting Principles (GAAP).GAAP to be explained - Entity concept, duality concept, matching concept, money measurement concept, going concern concept. (b) Principles of Financial accounting and reporting.
5	Sep	Unit 2	Banking - functions of the Central Bank and commercial banks, types of accounts and banking transactions. Function of Commercial Banks and Central Bank. (d) Fundamental concept of Cost (direct, variable etc.).Classification of cost according to nature (direct and indirect), behavior (variable, fixed and semi-fixed).
6	Oct	Unit 3	Understanding Human Resources (a) Importance of Human Resource in a commercial organization. Role of human resource

		<p>in any organization. Functions of human resources.</p> <p>(b) Commonly used methods of recruitment, selection and training. Definition, types and methods of recruitment, selection and training.</p> <p>4. Development of Public Relations-(a) Meaning, nature, scope of Public Relations. (b) Elements of public relations - human relations, empathy, persuasion and dialogue. The definition, nature and importance of empathy, persuasion and dialogue.(c) History of public relations and present status.(d) Ethics in public relations. Growing role of ethics in business and public relations.</p> <p>Issues of the Environment-(i) Destruction of ecosystem due to industrialization, dwelling of business units, transport, tourism and mining.(ii) Excessive consumption of minerals, raw materials and other non-renewable resources.(iii) Energy crisis: Urban and rural sectors. Renewable and non-renewable energy, greenhouse effect and global warming, acid rain, (iv) Environmental values and ethics.</p> <p>(v) Consumer education - consumer rights, making correct choices while buying different items; food adulteration.Bhopal Gas Tragedy; Chernobyl Disaster.(f) Community participation and public awareness programmes for ecological restoration and conservation like the Chipco Andolan (Movement).</p>
7	Nov	Pre Board Examination I
8	Dec	Winter Coaching
9	Jan	Pre board Examination II

SUBJECT: ECONOMIC APPLICATIONS

S.No	Month	Chapter No	Content
1	June	Unit 1	Demand and supply
2	July	Unit 2	Factors of production
3	Aug	Unit 3	Market structure
4	Sept	Unit 4	State of economic development
5	Oct	Unit 5	Money and banking
6	Nov		PreBoard Examination I
7	Dec		Winter Coaching
9	Feb		PreBoard ExaminationII

SUBJECT: COMPUTER APPLICATION

S.No	Month	Chapter No	Content
1	June	Chapter 1	<p>Revision of Class IX Syllabus</p> <p>(i) Introduction to Object Oriented Programming concepts, (ii) Elementary Concept of Objects and Classes, (iii) Values and Data types, (iv) Operators in Java, (v) Input in Java, (vi) Mathematical Library Methods, (vii) Conditional constructs in Java, (viii) Iterative constructs in Java, (ix) Nested for loops.</p> <p>Programs on Mathematical Library Methods, Conditional constructs in Java, Iterative constructs in Java, Nested for loops given to solve.</p>
2	July	Chapter 2 Chapter 3	<p>Class as the Basis of all Computation</p> <p>Objects and Classes</p> <p>Objects encapsulate state and behaviour – numerous examples; member variables; attributes or features. Variables define state; member methods; Operations/methods/messages/ methods define behaviour.</p> <p>Classes as abstractions for sets of objects; class as an object factory; primitive data types, composite data types. Variable declarations for both types; difference between the two types. Objects as instances of a class.</p> <p>Consider real life examples for explaining the concept of class and object.</p> <p>User - defined Methods</p> <p>Need of methods, syntax of methods, forms of methods, method definition, method calling, method overloading, declaration of methods, Ways to define a method, ways to invoke the methods – call by value [with programs] and call by reference [only definition with an example], Object creation - invoking the methods with respect to use of multiple methods with different names to implement modular programming, using data members and member methods, Actual parameters and formal parameters, Declaration of</p>

		Chapter 4	<p>methods - static and non-static, method prototype / signature, - Pure and impure methods, - pass by value [with programs] and pass by reference [only definition with an example], Returning values from the methods , use of multiple methods and more than one method with the same name (polymorphism - method overloading).</p> <p>Constructors</p> <p>Definition of Constructor, characteristics, types of constructors, use of constructors, constructor overloading.</p> <p>Default constructor, parameterized constructor, constructor overloading., Difference between constructor and method</p>
3	Aug	Chapter 5	<p>Library classes</p> <p>Introduction to wrapper classes, methods of wrapper class and their usage with respect to numeric and character data types. Autoboxing and Unboxing in wrapper classes.</p> <p>Class as a composite type, distinction between primitive data type and composite data type or class types. Class may be considered as a new data type created by the user, that has its own functionality. The distinction between primitive and composite types should be discussed through examples. Show how classes allow user defined types in programs. All primitive types have corresponding class wrappers. Introduce Autoboxing and Unboxing with their definition and simple examples.</p> <p>The following methods are to be covered:</p> <p>int parseInt(String s), long parseLong(String s), float parseFloat(String s), double parseDouble(String s), boolean isDigit(char ch), boolean isLetter(char ch), boolean isLetterOrDigit(char ch), boolean isLowerCase(char ch), boolean isUpperCase(char ch),</p>

			<p>boolean isWhitespace(char ch), char toLowerCase (char ch) char toUpperCase(char ch)</p> <p>Programs on the above methods to be done in the class</p>
4	Sept	Chapter 7 Chapter 6	<p>Arrays Definition of an array, types of arrays, declaration, initialization and accepting data of single and double dimensional arrays, accessing the elements of single dimensional and double dimensional arrays. Arrays and their uses, sorting techniques - selection sort and bubble sort; Search techniques – linear search and binary search, Array as a composite type, length statement to find the size of the array (sorting and searching techniques using single dimensional array only). Declaration, initialization, accepting data in a double dimensional array, sum of the elements in row, column and diagonal elements [right and left], display the elements of two-dimensional array in a matrix format. Programs on Single dimension arrays to be done in class Programs on Double dimension arrays to be done in class Encapsulation Access specifiers and its scope and visibility Access specifiers – private, protected and public. Visibility rules for private, protected and public access specifiers. Scope of variables, class variables, instance variables, argument variables, local variables.</p>
5	Oct	Chapter 8	<p>String handling String class, methods of String class, implementation of String class methods, String array The following String class methods are to be covered:</p>

			String trim() String toLowerCase() String toUpperCase() int length() char charAt (int n) int indexOf(char ch) int lastIndexOf(char ch) String concat(String str) boolean equals (String str) boolean equalsIgnoreCase(String str) int compareTo(String str) int compareToIgnoreCase(String str) String replace (char oldChar,char newChar) String substring (int beginIndex) String substring (int beginIndex, int endIndex) boolean startsWith(String str) boolean endsWith(String str) String valueOf(all types) Programs based on the above methods, extracting and modifying characters of a string, alphabetical order of the strings in an array [Bubble and Selection sort techniques], searching for a string using linear search technique.
6	Nov		Pre Board Examination I
7	Dec		Winter coaching
8	Jan		Pre Board Examination II

SUBJECT: PHYSICAL EDUCATION

S.No	Month	Chapter No	Content
1	June	Chapter 4 Chapter 5	Physical fitness (SECTION A) Sports training(SECTION A) Volleyball (SECTION B)
2	July	Chapter 6	Safety in sports (SECTION A) Badminton (SECTION B)
3	Aug	Chapter 7	Health Education (SECTION A) Hockey (SECTION B)
4	Sep	Chapter 3	Body types (SECTION A) Basketball (SECTION B)
5	Oct	Chapter 2 Chapter 1 Chapter 8	Physical Education (SECTION A) Football (SECTION B) Human Growth and Development (SECTION A) Carriers in Physical Education (SECTION A) Cricket (SECTION B)
6	Nov		Pre Board Examination I
7	Dec		Winter Coaching
8	Jan		Pre board Examination II

SUBJECT: HOME SCIENCE

S.No	Month	Chapter No	Content
1	March	Concept	Home furnishing Colour and its application. Lighting in the home.
2	June	Concept	Fabrics for furnishing Factors affecting selection of furnishing (curtains & draperies, carpets and upholstery) that can enhance the appearance of a room. Space Organization in the kitchen.
3	July	Concept	Management of Money Importance of budgeting and savings. Role of budgeting in the efficient management of money. Steps in making a budget and factors affecting a budget. An understanding of how budgeting helps in proper planning and judicious utilization of available resources. Need for saving, ways and means of saving. Fundamentals of banking. Opening and operating a bank account, types of deposit accounts: savings, recurring, current and fixed deposit account, withdrawal and deposit of cash and cheque, writing a cheque, maintaining a pass book and use of ATM. Role of the family, peer group and school in the life of an adolescent.
4	Aug	Concept	Growth and Development during Middle Childhood Milestones of development An introduction to the changes in growth and development that take place between 5 - 12 years of age with respect to physical, social, emotional, cognitive and language development in children between five and twelve years of age. Meal Planning Concept of balanced diet.

			Meal planning for the family. Hygienic handling and storage of food - household methods of preservation of food.
5	Sep	Concept	Growth and Development during Adolescence Physical growth of adolescents, pubertal changes. A brief introduction to the relationship of physiology and maturation during adolescence. The role of endocrine glands and their influence on physical and psychological changes during adolescence. Differences in physical maturity of boys and girls. Hygiene and Personal grooming during adolescence. Care of Textiles and Clothing
6	Oct	Concept	Consumer Education Meaning and need for consumer education Wise buying methods for aware consumers. Consumer Rights and responsibilities Food adulteration
7	Nov		Pre Board Examination I
8	Dec		Winter Coaching
9	Jan		Pre board Examination II

SUBJECT: MUSIC

S.No	Month	Chapter No	Content
1	March	Unit 6 and 8	Theory and Practical
2	June	Unit 7	Raga Bhopali
3	July	Unit 2 & 3	Raga Bhairavi
4	Aug	Unit 1	Raga Des
5	Sept	Unit 4	Raga Bageshri
6	Oct	Unit 5	Talas Khamaj
7	Nov		PreBoard Examination I
8	Jan		PreBoard ExaminationII

SUBJECT: PERFORMING ARTS (DANCE)

S.No	Month	Content
1	March	1. An understanding of the guru-shishyaparampara (<i>including the tradition and lineage associated with the chosen dance form only</i>).
2	June-July	<p>2. Identification of different classical dance styles in India. The aesthetic appeal of each, highlighting the distinctiveness of the individual styles, namely Bharatanatyam, Kathak, Odissi, Kuchipudi, Manipuri and Kathakali.</p> <p>The practical section is divided into <i>two</i> parts: Nritya Abhinaya</p> <p>3. Nritya and fast. An understanding of the different rhythms (Tal) and the ability to perform a particular Tal in a passage of dance. Recitation of the Bols (syllables) and the ability to present the spoken syllables in dance. Individual presentation of a short Nritya item.</p>
4	Aug	<p>The mythological evolution of dance and an elementary understanding of important texts like the Natya Shastra, and story lines associated with classical dance in India. Also, an appreciation of the myths surrounding the lives of Ganesh, Krishna, Shiva, Vishnu, etc.</p> <p>Prominent exponents of the various different classical dance styles listed above.</p> <p>An understanding of the dance repertoire and musical accompaniment (<i>for the chosen dance style only</i>).</p> <p>The practical section is divided into <i>two</i> parts: 1) Nritya 2) Abhinaya</p> <p>1. Nritya and fast. (iii) An understanding of the different rhythms (Tal) and the ability to perform a particular Tal in a passage of dance.</p>

		<p>(iv) Recitation of the Bols (syllables) and the ability to present the spoken syllables in dance.</p> <p>(v) Individual presentation of a short Nritya item.</p> <p>(vi) item.</p>
4	Sept-Oct	<p>1. The sociological development of dance – its history, roots, growth and revival.</p> <p>2. Abhinaya <u>September onwards 2020</u></p> <p>Knowledge of the Asamyuta (single hand gestures) and Samyuta (double hand gestures) used in Abhinaya.</p> <p>The Deva Hastas (Brahma, Vishnu, Shiva, Krishna, Ganesh, etc.) with their attributes.</p> <p>The DasavatarHastas (gestures depicting the 10 avatars of Vishnu).</p> <p>A basic knowledge of the Nava Rasas (nine emotions) used in dance, namely:</p> <p style="padding-left: 40px;">Shringar – love Hasya – mirth Karuna – compassion Roudra – anger Veera – strength Bhayanaka – fear Bhibatsa – disgust Adbuta – wonder Shantam – peace</p> <p>Individual presentation of a short item of Abhinaya.</p>
5	Nov	PreBoard Examination I
6	Jan	PreBoard Examination II