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R.M. Public School

(CBSE AFFILIATION NO. 730072)

Session 2026-27

SYLLABUS

CLASS :12TH (SCIENCE I & II)

SUBJECT: ENGLISH

ASSESSMENT	MONTH	DAYS	CONTENT	ACTIVITY
PA-1	March (13) Flamingo	06 07	• Ch1: The Last Lesson • Ch 2: Lost Spring	• Group Discussion on "How regional languages can be preserved and taught to the youth of today."
	April (23) Flamingo Vistas	04 04 05 05 05	• Poem 1. My mother at sixty six • Poem 2.Keeping Quiet • Creative writing skills: Notice writing • Ch1: Third level • Ch 2 : Tiger King	• Newspaper article writing on "How the world can be made a peaceful place to live in amidst the wars and conflicts between nations" with examples from the current world.
	May (10) Flamingo	02 02 02 04	• Ch3 : Deep Water • Ch 4 : The Rattrap • Poem 3: A Thing of Beauty • Revision of PA-1	• Debate and write analysis report on "Social issues dossier"
TERM-1	May (07) Vistas	04 03	• Poem 4: Aunt Jennifer's Tigers • Ch 4: The Enemy	• Extempore Topic 'Breaking the shackles of stereotypes'

	July (14) Flamingo	05 05 04	• Creative writing skills: Informal/ Formal invite and reply • Ch 5 : Indigo • Poem 5: A Roadside Stand	• Prepare a card format invitation for the Annual day of your school to be sent to the parents.
	August (22) Flamingo Vistas	04 04 03 04 04 03	• Ch 7 : The Interview Creative writing skills: • Job Application • Report writing • Ch4 : Journey to the end of Earth • Ch 8: Memories of Childhood (a) Cutting of my long hair (b) We too are human beings • Ch 5 : On the Face of it	• Create a Resume for yourself for the job of a Teacher at a reputed school. • **Role-Play Simulation** Students role-play as "Students on Ice" expedition members aboard the Akademik Shokalskiy.
	September (10)	10	• Revision of PA1 and Term 1 syllabus	
PRE BOARD-1	September (01)	01	**Book: Vistas** • Ch 4: The Enemy	
	October (22)	05 05 03	• Ch 4 : The Enemy • Ch8: Memories of childhood **Writing Skill** • Letter to Editor	

		02 02 02 03	• Invitation • Article / Report Writing • Reading comprehension (Unseen) • Consolidation and Reflection of syllabus in Pre Board-1	
	November		• Consolidation and Reflection of 75% syllabus in Pre Board-1 **Book: Flamingo** • Ch 8: Going places	
PRE BOARD-2	December		• Consolidation and Reflection of complete syllabus	
PRE BOARD-3	January		• Consolidation and Reflection of complete syllabus	

SUBJECT: MATHEMATICS (CORE)

ASSESSMENT	MONTHS	DAYS	CONTENT	ACTIVITY/ PRACTICALS
PA-1	March (13)	08 05	• Ch1: Relations and Functions • Ch 2: Inverse Trigonometric Functions	• To verify R in set L of all lines given by R ={(L,M) :L is Perpendicular to M} is symmetric but neither reflexive nor transitive.
	April (23)	15	• Ch3: Matrices	Matrix magic grid solving systems using

		08	• Ch 4: Determinant	determinant.
	May (10)	04 06	• Ch 5: Continuity and Differentiability • Revision of PA1	Speed tracker differentiation in real life to understand differentiation as instantaneous rate of change of speed of a car.
TERM-1	May 07)	07	• Ch 5: Continuity and Differentiability	• To find analytically the limit of a function f(x) at x = c also to check the continuity of the function at that point.
	July 14	14	• Ch 6:Application of Derivatives	• To understand the concept of local maxima, local minima and point of inflation.
	August 22	16 07	• Ch7:Integrals • Ch8: Application of Integrals	• To verify that amongst all the rectangles of the same perimeter, the square has the maximum area. • To construct an open box of maximum volume from given rectangular sheet by cutting equal part from each corner.
	September 10	10	• Revision of PA1 and Term 1 syllabus	

PRE BOARD-1	September (1)	01	• Ch 9 : Differential equations	
	October (22)	02 04 04 04 04 04	• Ch 9: Differential equation • Ch10 : Vectors • Ch11 : Three Dimensional Geometry • Ch12 : Linear Programming • Ch 13: Probability • Consolidation and Reflection of syllabus in Pre board-1	• To measure the shortest distance between two skew lines and verify it analytically. • To explain the computation of conditional probability of a given event A, when event B has already occurred, through an example of throwing a pair of dice.
	November		• Consolidation and Reflection of 75% complete syllabus	
PRE BOARD-2	December		• Consolidation and Reflection of complete syllabus	
PRE BOARD-3	January		• Consolidation and Reflection of complete syllabus	

SUBJECT: BIOLOGY

ASSESSMENT	MONTHS	DAYS	CONTENT	ACTIVITY/ LAB
PA-1	March (13)	13	• Ch1: Sexual reproduction in flowering plants (half)	• Dissection of parts of flower (flower exploration activity in classroom)
	April (23)	02 15 06	• Ch1: Sexual reproduction in flowering plants. • Ch 2: Human reproduction • Ch 3: Reproductive health	Diagrammatic representation showing • Oogenesis • spermatogenesis. Studying various techniques of ART (in ICR). • **Field Trip-** Visit to an IVF Centre for Exploring Assisted Reproductive Technologies (ART).
	May (10)	06 04	• Ch 4: Principle of inheritance and variation • Revision of PA-1 syllabus	• To determine the population frequency of any field by quadrate method.
TERM-1	May (7)	07	• Ch 4 : Principles of inheritance and variation	To make a temporary mount of the onion root tip to study various stages of mitosis. Project work a) Cancer b) Drugs c) Biodiversity d) AIDS

	July (14)	08 06	• Ch 5 : Molecular basis of inheritance • Ch 6 : Evolution (Half)	• TS of blastula through permanent slides. TS of ovary through permanent slides
	August (22)	07 07 08	• Ch 6 : Evolution • Ch 7: Human health and disease • Ch 8 : Microbes in human welfare	• Common disease causing organisms like Ascaris, Entamoeba, Plasmodium through permanent slides, models or virtual images.
	September (10)	10	• Revision of PA-1 and Term-1 syllabus.	• Overview and explanation of chapter through ICR
PRE BOARD-1	September (01)	01	• Ch8: Microbes in human welfare	
	October (22)	06	• Ch8: Microbes in human welfare	
		07	• Ch9: Biotechnology; Principle and Processes	• Make a report on Biotechnological applications in agriculture, medicines and gene therapy
		07	• Ch10 : Biotechnology and its applications	
		02	• Consolidation and Reflection of 75%	

			syllabus in Pre board-1	
	November		• Consolidation and Reflection of 75% complete syllabus • Ch11: Organisms and Population • Ch12 : Ecosystem • Ch 13: Biodiversity and Conservation	• Endemic and Endangered species Identification activity (Species richness and diversity analysis)
PRE BOARD-2	December		• Consolidation and Reflection of complete syllabus	
PRE BOARD-3	January		• Consolidation and Reflection of complete syllabus	

SUBJECT: PHYSICS

ASSESSMENT	MONTH	DAYS	CONTENT	LAB ACTIVITIES
PA -1	March (13)	13	• Ch1: Electric Charges and Fields	• Show charges by friction.
	April (23)	12	• Ch 2: Electric Potential and Capacitance	• Heating effect of electric current to observe Joule heating

		11	• Ch 3: Current Electricity	effect
	May (10)	10	• Revision of PA1 syllabus	• Field Trip – Visit to IIT Jammu.
TERM -1	May (07)	07	• Ch : Current Electricity	• To assemble a household circuit comprising three bulbs, three switches (ON/OFF) and power source. (Activity)
	July (14)	14	• Ch 4: Moving Charges and Magnetism	• To determine the resistance of galvanometer by half deflection method.
	August (22)	11 11	• Ch5 : Magnetism and Matter • Ch6 : Electromagnetic Induction	
	September 10	10	• Revision of PA1 and Term 1 syllabus	• Model- Atomic structure.
PRE BOARD-1	September (01)	01	• Ch7: Alternating current	
	October (22)	04 02	• Ch 7: Alternating current • Ch 8: Electromagnetic waves	• To find the value of v for different values of u in case of a concave mirror and to find the focal length.

		06 10	• Ch 9: Ray optics and optical instruments • Ch10: Wave optics and optical instruments	• To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation. • To determine refractive index of a glass slab using a travelling microscope
	November		• Consolidation and Reflection of 75% syllabus in Pre board-1 • Ch11 : Dual nature of radiation and matter • Ch12 :Atoms • Ch13 :Nuclei • Ch14 : Semiconductor Electronics: Materials, Devices, and Simple Circuits	
PRE BOARD-2	December		• Consolidation and Reflection of complete syllabus	

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PRE BOARD-3	January		• Consolidation and Reflection of complete syllabus	

SUBJECT: CHEMISTRY

ASSESSMENT	MONTHS	DAYS	CONTENT	LAB ACTIVITY (APPRATUS)
PA-1	March 13	13	• Ch 1 : Solutions	• Preparation of crystals Preparation of a solution of known molarity
	April 23	12 11	• Ch 2 : Electrochemistry • Ch 3: Chemical Kinetics	• To study the methods of purification of water. • Study of commom food adultrants in fat, oil, butter, sugar, turmeric powder, chilly powder and pepper
	May 10	10	• Revision of PA-1 syllabus	• Volumetric titration Field Trip – Visit to Pharma Industry (Bari Brahmna)
TERM -1	May 07	07	• Ch 4: d & f block elements	• Content based experiment
	July 14	07 07	• Ch 4: d & f block elements • Ch 5: Coordination compounds	• Project work

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	August 22	12 10	• Ch 6: Haloalkanes & Haloarenes • Ch7: Alcohol, phenol & Ethers	• Detection of functional groups
	September 10	10	• Revision of PA-1 and Term-1 syllabus	• Detection of functional groups
PRE BOARD-1	September (01)	01	• Ch7: Alcohol, Phenol & Ethers	
	October (22)	02	• Ch7:Alcohol,Phenol & Ethers	• Comparative study of acidity of alcohol & phenols
		08	• Ch 8 : Aldehydes, ketones and Carboxylic acids	• Describe a chemical test to identify given samples of Aldehydes, ketones and write your expected observations
		06	• Ch 9 : Amines	• Identification of primary amines using carbylamines reaction
		06	• Ch 10: Biomolecules	• Identification of aliphatic aldehydes and reducing sugars using Fehling's test
	November		• Consolidation and Reflection of 75%	

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			syllabus in Pre board-1	
PRE BOARD-2	December		• Consolidation and Reflection of complete syllabus	
PRE BOARD-3	January		• Consolidation and Reflection of complete syllabus	

SUBJECT: COMPUTER SCIENCE

ASSESSMENT	MONTHS	DAYS	CONTENT	LAB/PRACTICAL ACTIVITY
PA-1	March (13)	13	• Ch1 :Review of Python Basics	• Practical's regarding Python Basics.
	April (23)	07 06 10	• Ch 2 : Functions • Ch3: Exception Handling • Ch 4:Data File Handling	Practical • Practical – CSV File Preparation
	May (10)	5 5	• Ch 5:Data Structures in Python • Revision of PA1 syllabus	• Practicals regarding Stacks operation.
TERM-1	July (14)	14	• Ch 7 :Relational Databases and SQL	• DBMS Assignment
	August (22)	12 10	• Ch 6 : Computer network • Ch 8:Interface Python with SQL	• DBMS Assignment Project Report & Practical File

	September (10)	10	• Revision of PA1 and Term 1 syllabus	
PRE BOARD-1	September (01)	01	• Ch 6 : Computer Networks	• Flip Learning
	October (22**)**	03 08 08 03	• Ch 6: Computer Networks • Ch7 :Relational Databases and SQL • Ch8 : Interface Python with SQL • Consolidation and Reflection of syllabus in Pre board-1	• Flip Learning • Practical DBMS Assignment • DBMS Assignment Project Report & Practical File
	November		• Consolidation and Reflection of 75% complete syllabus	
PRE BOARD-2	December		• Consolidation and Reflection of complete syllabus	
PRE BOARD-3	January		• Consolidation and Reflection of complete syllabus	

SUBJECT: PHYSICAL EDUCATION

ASSESSMENT	MONTHS	DAYS	CONTENT	ACTIVITY
PA -1	March (13)	13	• Ch 1:Management of sporting events	• Group discussion- ways to manage

				sports tournament.
	April (23)	12 11	• Ch 2 : Children and women in sports • Ch 3:Yoga as preventive measure lifestyle disease	• Field Trip – To Rehabilitation Centre. • Demonstration- Asanas.
	May (10)	05 05	• Ch 4:Physical education and sports for CWSN • Revision of PA1 syllabus	• PPT presentation on any game/ sports CWSN.
TERM-1	May (07)	07	• Ch 5 : Sports nutrition	• Chart preparation- Balanced diet.
	July (14)	09 05	• Ch 6 :Test and measurement in sports • Revision of Term 1	• Fitness Test Saikhelo test in school.
	August 22	07 08	• Ch 7: Physiology and injuries in sports • Ch 8: Biomechanics and sports	• PPT presentation to classify injuries- joints and bones. • Practical session on development of children's

		07	• Ch 9: Psychology in sports	posture.
	September (10)	10	• Revision of PA1 and Term 1 syllabus	

PRE BOARD-1	September (01)	01	• Ch 6:Test and measurement in sports	
	October (22)	07	• Ch7: Physiology and injuries in sports	• Children develop habits that keep body healthy and safe
		05	• Ch 8 :Biomechanics and sports	
		05	• Ch 9 : Psychology in sports	• How to develop children personality
		03	• Ch10 : Training in sports	• Children develop how to maintain physical fitness
		02	• Consolidation and Reflection of syllabus in Pre board-1	
	November		• Consolidation and Reflection of 75% complete syllabus	
PRE BOARD-2	December		• Consolidation and Reflection of complete syllabus	
PRE BOARD-3	January		• Consolidation and Reflection of complete syllabus	

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SUBJECT: ENTREPRENEURSHIP

ASSESSMENT	MONTH	DAYS	CONTENT	ACTIVITY
PA -1	March (13)	13	• Ch 1: Entrepreneurial Opportunity	• Problem Solution Hunt Activity
	April (23)	03 20	• Ch1 : Entrepreneurial Opportunity • Ch 2 : Entrepreneurial Planning	• Presentation of marketing mix including: Product, price, place, promotion of any one product.
	May (10)	10	• Revision of PA1 syllabus	• Field Trip- Visit to a DIC office.
TERM-1	May (07)	07	• Ch 3: Enterprise growth strategies Employee and vendor management	• Role play on Franchisor and franchisee for understanding of growth strategies.
	July (14)	14	• Ch 4: Enterprise Growth Strategies Franchising	• Franchise Pitch Competition Groups of 4-5 act as aspiring franchisees pitching to a "franchisor panel" (teacher + students) for brands like Amul or Subway, preparing 3-minute presentations on why they'd succeed in Jammu markets.
	August (22)	09 13	• Ch4 : Enterprise Growth Strategies • Ch 5 : Business Arithmetic	Report presentation on: Sales executive strategies of the Parle-G company.
	September (10)	10	Revision of Term 1 Syllabus	
PRE BOARD-1	September (01)	01	• Ch 5 : Business	

			Arithmetic	
	October (22)	10 10 02	• Ch 5: Business Arithmetic • Ch 6 : Resource Mobilisation • Consolidation and Reflection of syllabus in Pre board-1	• To apply business arithmetic concepts to a practical business situation by calculating break even point, P/V ratio and profit
	November		• Consolidation and Reflection of 75% complete syllabus	
PRE BOARD-2	December		• Consolidation and Reflection of complete syllabus	
PRE BOARD-3	January		• Consolidation and Reflection of complete syllabus	

SUBJECT –PSYCHOLOGY

ASSESSMENT	MONTH	DAYS	CONTENT	ACTIVITY
PA-1	March (13)	13	• Ch1: variations in psychological attributes.	• Raven's standard progressive matrices. (RSPM).
	April (23)	12 11	• Ch 2 : Self and personality. • Ch 3: Meeting life challenges.	• Maudsley personality inventory (MPI). • Global adjustment scale. Field Visit- Visit to Life

				Line Psychiatric social service and research centre.
	May (10)	08 02	• Ch 4 : Psychological disorders. • Revision of PA 1	• Identifying abnormal behaviour in different situations.
TERM-1	May (07)	07	• Ch 5 : Therapeutic approaches. (Half)	• Group discussion on Therapeutic approaches.
	July (14)	14	• Ch 5 : Therapeutic approaches.	• Guide and blindfold – for client and therapist relation.
	August (22)	12 10	• Ch 6: Attitudes and social cognition. • Ch 7:Social influences and group processes.	• David's battery of differential abilities. • Self- concept questionnaire
	September (10)	10	• Revision of PA1 and Term 1 syllabus	
PRE BOARD-1	September (1)	01	• Ch : Attitudes and social cognition.	
	October (22)	15 07	• Ch: Attitudes and social cognition • Consolidation and Reflection of syllabus in Pre board-1	• David's battery of differential abilities.
	November		• Consolidation and Reflection of 75% complete syllabus	
PRE BOARD-2	December		• Consolidation and Reflection of	

			complete syllabus	
PRE BOARD-3	January		• Consolidation and Reflection of complete syllabus	

SUBJECT – PAINTING

ASSESSMENT	MONTH	DAYS	CONTENT	ACTIVITY
PA-1	March (13)	02 02 09	• Ch1 : An Introduction • Ch 2: A Brief introduction to Indian Miniature Schools • Pala school • Jain School • Central school • Ch 3: Rajasthani Schools of Miniature Painting Origin and Development • Sub Schools • Main feature of Miniature Painting	Study of Indian miniature painting • Surface • Brushes • Colours • Krimchi Temple Udhampur
	April (23)	12 11	• Ch 3: Rajasthani School of Miniature Painting Origin and development (a) Paintings of Rajasthani School MaruRagini, Chaugan Players, Krishna on Swing, Radha (Banithani), Bharat meets Rama at Chitrakuta (b) Ch 4 : Pahari School of Miniature Painting (c) Origin and Development (d) Sub schools- Basholi, Guler, Kangra, Chamba,,	• Practical -Still life with drapery, fold of clothes. Student create a RajasthaniBaniThani Painting • Pahari miniature origin and development and sub school.

			Garhwal	
	May (10)	06	• Ch 4 :Pahari school of Miniature Painting • Main features of Pahari school • Paintings of Pahari school (Krishna with Gopies, Nandyashoda& Kinsmen going to Vrindavan)	• Students create a painting on Pahari School of Miniature painting -Still life.
		04	• Ch 5 : Mughal School of Miniature Painting • Origin and development • Revision of PA1 syllabus	• Mind map of Mughal Miniature origin and development
TERM-1	May 07	07	• Ch 4 : Mughal school of Miniature Painting • Main features of the Mughal school	
	July (14)	07 07	Ch 4: Mughal school of Miniature Painting • Paintings of Mughal school	• Study of Mughal Miniature Painting. Practical-Composition (Figurative with Contemporary art) Indian miniature painting
	August (22)	05 05 05 07	• Ch 5: Deccan School of Miniature Painting • Origin & development • Main features of the deccan school • Paintings of deccan school • Ch 6 : National Flag of India& the Symbolic Significance of its forms &the colours	• Design Indian National Flag of(1906,1921,1947) History Practical-Portraits Landscape-(Historical buildings of Khajuraho and temples)
	September (10)	10	• Revision of PA1 and Term 1 syllabus	

PRE BOARD-1	September (1)	01	• Ch 6:National Flag of India& the Symbolic Significance of its forms &the colours	• Madhubani art
	October (22)	10 10 02	• Ch 7: Introduction to the Bengal School of Painting • Ch 8: The modern trends in Indian Art. • Consolidation and Reflectionof syllabus in Pre board-1	• Budha images • Boho art
	November		• Consolidation and Reflection of 75% complete syllabus	
PRE BOARD-2	December		• Consolidation and Reflection of complete syllabus	
PRE BOARD-3	January		• Consolidation and Reflection of complete syllabus	

SUBJECT: YOGA

ASSESSMENT	MONTH	DAYS	CONTENT	ACTIVITY
PA-1	March (13)	13	• Ch : Communication skills	• Speak and listen
	April (23)	12 11	• Ch: Self management skills • Ch: Introduction to yoga and yogic practices	• My daily planner • Practice of yoga asana and pranayama

	May (10)	10	• Ch: ICT skills	• Create a digital presentation
TERM-1	May 07	07	• Ch: ICT skills	• Create a digital presentation
	July 14	14	• Ch: Introduction to yoga text-II	• Practice of yoga asana and pranayama
	August 22		• Ch: Entrepreneurial skills	• Create own business ideas
	September (10)	10	• Revision of PA1 and Term 1 syllabus	
PRE BOARD-1	September (1)	01	• Ch :Green skills-IV	• Plantation drive
	October (22)	10 12	• Ch : Green skills-IV • Ch: Yoga for health promotion -II	• Plantation drive • Yoga for healthy life style
	November		• Consolidation and Reflection of 75% complete syllabus	
PRE BOARD-2	December		• Consolidation and Reflection of complete syllabus	
PRE BOARD-3	January		• Consolidation and Reflection of complete syllabus	

NOTE: The field trip outlined in the syllabus shall be organized strictly upon receiving formal permission from the concerned institute/organization.