



R.M Public School

(CBSE AFFILIATION NO. 730072)

Session 2026-27

SYLLABUS

CLASS :12TH (SCIENCE)

SUBJECT: ENGLISH

ASSESSMENT	MONTH	DAYS	CONTENT	ACTIVITY
PA-1	March 13 Flamingo	6 7	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	4 4 5 5 5	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	2 2 2 4	Ch 3: 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 7 Vistas	4 3	Poem 4: Aunt Jennifer’s Tigers Ch 3: The Enemy	Extempore Topic ‘Breaking the shackles of stereotypes’

	July 14	5	Creative writing skills: Informal/ Formal invite and reply	Prepare a card format invitation for the Annual day of your school to be sent to the parents.
	Flamingo	5 4	Ch 5: Indigo Poem 5: A Roadside Stand	
	August 22	4	Ch 7: The Interview Creative writing skills:	Create a Resume for yourself for the job of a Teacher at a reputed school.
	Flamingo	4	Job Application	
		3	Report writing	
	Vistas	4	Ch 4: Journey to the end of Earth	Role-Play Simulation Students role-play as "Students on Ice" expedition members aboard the AkademikShokalskiy.
		4	Ch 5: Memories of Childhood (a) Cutting of my long hair (b) We too are human beings	
		3	Ch 6: On the Face of it	
	September 10	10	Revision of PA1 and Term 1 syllabus	

SUBJECT: MATHEMATICS

ASSESSMENT	MONTHS	DAYS	CONTENT	ACTIVITY/ PRACTICALS
PA-1	March 13	8	Unit 1: Relations and Functions	To verify R in set L of all lines given by $R = \{(L,M) : L \text{ is Perpendicular to } M\}$ is symmetric but neither reflexive nor transitive.
	April 23	5	Unit 2: Inverse Trigonometric Functions	Matrix magic grid solving systems using determinant.
		15	Unit 3: Matrices	
	May 10	08	Unit 4: Determinant	Speed tracker differentiation in real life to understand differentiation as instantaneous rate of change of speed of a car.
		4	Unit 5: Continuity and Differentiability	
		6	Revision of PA1	
TERM-1	May 7	7	Unit 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	Unit6:Application of Derivatives	To understand the concept of local maxima, local minima and point of inflation.
	August 22	16	Unit7:Integrals	To verify that amongst all the rectangles of the same perimeter, the square has the maximum area.
		7	Unit8: Application of Integrals	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	

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	2	Ch1: Sexual reproduction in flowering plants.	Diagrammatic representation showing a) Oogenesis b) spermatogenesis.
		15	Ch 2: Human reproduction	Studying various techniques of ART (in ICR).
	May 10	6	Ch 3: Reproductive health	Field Trip- Visit to an IVF Centre for Exploring Assisted Reproductive Technologies (ART).
		6	Ch 4: Principle of inheritance and variation	To determine the population frequency of any field by quadrat method.
TERM-1	May 7	4	Revision of PA-1 syllabus	
		7	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	8 6	Ch 5 : Molecular basis of inheritance Ch 6: Evolution (Half)	TS of blastula through permanent slides. TS of ovary through permanent slides
	August 22	7 7 8	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

SUBJECT: PHYSICS

ASSESSMENT	MONTH	DAYS	CONTENT	LAB ACTIVITIES
PA -1	March 13	13	Ch1: Electric Charges and Fields	Show charges by friction.
	April 23	8	Ch 2: Electric Potential and Capacitance	Heating effect of electric current to observe Joule heating effect
		7	Ch 3: Current Electricity	
		8	Ch 4: Moving Charges and Magnetism	
	May 10	8	Ch 5: Magnetism and Matter	Field Trip – Visit to IIT Jammu.
		2	Revision of PA1 syllabus	
TERM -1	May 7	7	Ch 6: Electromagnetic Induction	To assemble a household circuit comprising three

				bulbs, three switches (ON/OFF) and power source. (Activity)
	July 14	10	Ch 7: Alternating Current	To determine the resistance of galvanometer by half deflection method.
		4	Ch 8: Electromagnetic Waves	
	August 22	10	Ch 9: Ray Optics and Optical Instruments	To find the value of v for different value of u in case of concave mirror and to find focal length.
		8	Ch 10: Wave Optics	To determine the angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
		4	Ch 11: Dual Nature of Radiation and Matter	To determine refractive index of a glass slab using travelling microscope.
	September 10	10	Revision of PA1 and Term 1 syllabus	Model- Atomic structure.

SUBJECT: CHEMISTRY

ASSESSMENT	MONTHS	DAYS	CONTENT	LAB ACTIVITY (APPARATUS)
PA-1	March 13	13	Ch 1: Solutions	Preparation of crystals Preparation of a solution of known molarity
	April 23	12	Ch 2: Electrochemistry	To study the methods of purification of

		11	Ch 3 : Chemical Kinetics	water. Study of common food adulterants 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 7	7	Ch4: d & f block elements	Content based experiment
	July 14	7	Ch4: d & f block elements	Project work
		7	Ch5: Coordination compounds	
	August 22	12	Ch 6: Haloalkanes & Haloarenes	Detection of functional groups
		10	Ch7: Alcohol, phenol & Ethers	
	September 10	10	Revision of PA-1 and Term-1 syllabus	Detection of functional groups

SUBJECT: COMPUTER SCIENCE

ASSESSMENT	MONTHS	DAYS	CONTENT	LAB/PRACTICAL ACTIVITY
PA-1	March 13	13	Ch 1:Review of Python Basics	Practical's regarding Python Basics.
	April 23	13	Ch 2: Functions	Practical
	May 10	10	Ch 3:Data File Handling	Practical – CSV File Preparation
		5	Ch 4:Data Structures in Python	Practicals regarding Stacks operation.
TERM-1	July 14	5	Revision of PA1 syllabus	
		14	Ch 5:Relational Databases and SQL	DBMS Assignment
	August 22	12	Ch 6: Computer network	DBMS Assignment
		10	Ch 7:Interface Python with SQL	Project Report & Practical File
	September 10	10	Revision of PA1 and Term 1 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	Ch 2: Children and women in sports	Field Trip – To Rehabilitation Centre.

		11	Ch 3:Yoga as preventive measure lifestyle disease	Demonstration-Asanas.
	May 10	5	Ch 4:Physical education and sports for CWSN	PPT presentation on any game/ sports CWSN.
		5	Revision of PA1 syllabus	
TERM-1	May 07	07	Ch 5: Sports nutrition	Chart preparation-Balanced diet.
	July 14	9	Ch 6 :Test and measurement in sports	Fitness Test Saikhelo test in school.
		5	Revision of Term 1	
	August 22	7	Ch7: Physiology and injuries in sports	PPT presentation to classify injuries- joints and bones.
		8	Ch 8:Biomechanics and sports	Practical session on development of children's posture.
		7	Ch 9: Psychology in sports	
	September 10	10	Revision of PA1 and Term 1 syllabus	

SUBJECT: ENTREPRENEURSHIP

ASSESSMENT	MONTH	DAYS	CONTENT	ACTIVITY
PA -1	March 13	13	Ch 1: Entrepreneurial Opportunity	Problem Solution Hunt Activity
	April 23	03	Ch 1: Entrepreneurial Opportunity	Presentation of marketing mix including: Product, price, place, promotion of

		20	Ch 2: Entrepreneurial Planning	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	9	Ch 4: Enterprise Growth Strategies	Report presentation on: Sales executive strategies of the Parle-G company.
	September 10	10	Ch 5: Business Arithmetic Revision of Term 1 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	Ch 2: Self and personality.	Maudsley personality inventory (MPI).
		11	Ch 3: Meeting life challenges.	Global adjustment scale. Field Visit - Visit to Life Line Psychiatric social service and research centre.
	May 10	8	Ch4 : Psychological disorders.	Identifying abnormal behaviour in different situations.
		2	Revision of PA 1	
TERM-1	May 7	7	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	Ch 6: Attitudes and social cognition.	David’s battery of differential abilities.
		10	Ch 7: Social influences and group processes.	Self- concept questionnaire
	September 10	10	Revision of PA1 and Term 1 syllabus	

SUBJECT – PAINTING

ASSESSMENT	MONTH	DAYS	CONTENT	ACTIVITY
PA-1	MARCH 13	2 2 9	Ch 1: An Introduction Ch 2: A Brief introduction to Indian Miniature Schools <ul style="list-style-type: none"> • Pala school • Jain School • Central school Ch 3: Rajasthani Schools of Miniature Painting Origin and	Study of Indian miniature painting <ul style="list-style-type: none"> • Surface • Brushes • Colours • Krimchi Temple Udhampur

			<p>Development</p> <ul style="list-style-type: none"> • Sub Schools • Main feature of Miniature Painting 	
APRIL 23	12	<p>Ch 3: Rajasthani School of Miniature Painting</p> <p>Origin and development</p> <ul style="list-style-type: none"> • Paintings of Rajasthani School MaruRagini, Chaugan Players, Krishna on Swing, Radha (Banithani), Bharat meets Rama at Chitrakuta 	<p>Practical -Still life with drapery, fold of clothes. Student create a RajasthaniBaniThani Painting</p>	
	11	<p>Ch 4: Pahari School of Miniature Painting</p> <ul style="list-style-type: none"> • Origin and Development • Sub schools- Basholi, Guler, Kangra, Chamba,, Garhwal 	<p>Pahari miniature origin and development and sub school.</p>	
MAY 10	6	<p>Ch 4:Pahari school of Miniature Painting</p> <ul style="list-style-type: none"> • Main features of Pahari school • Paintings of Pahari school (Krishna with Gopies, Nandyashoda& Kinsmen going to Vrindavan) 	<p>Students create a painting on Pahari School of Miniaturepainting -Still life.</p>	
	4	<p>Ch 5 :Mughal School of Miniature Painting</p> <ul style="list-style-type: none"> • Origin and development <p>Revision of PA1 syllabus</p>	<ul style="list-style-type: none"> • Mind map of Mughal Miniature origin and development 	

TERM-1	MAY 7	7	Ch 4: Mughal school of Miniature Painting • Main features of the Mughal school	
	JULY 14	7 7	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	5 5 5 7	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	

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