



# **R. M. PUBLIC SCHOOL**

**CBSE AFFILIATION NO.: 730072**

**SESSION: 2024-25**

## **SYLLABUS**

**CLASS: 12<sup>TH</sup> (SCIENCE)**

### **SUBJECT: ENGLISH**

ASSESSMENT	MONTH	TOTAL DAYS	CONTENT	ACTIVITY
PA-1	MARCH	7	The last lesson (Flamingo)	
			Notice writing	
	APRIL	23	My mother at sixty six (Poem)	Group Discussion On importance mother tongue.
			The Third level	
			Lost Spring	
			Keeping Quiet	
	MAY	13	The Tiger King	ROLE PLAY- The Tiger King
			Report writing	
			Formal and Informal Invites (Writing)	
	JULY	14	Deep water	
A thing of beauty (Poem)				
Term1				

	AUGUST	24	The rat trap Journey to the end of the earth (Vistas) A road side stand (Poem) Job application (writing) Aunt Jennifer's Tiger (Poem) Indigo	SPEAK YOUR MIND OUT- Saving global environment.
	SEPTEMBER	06	On the face of it (Vistas) The Enemy	Debate competition
		06	Revision of T1	

### SUBJECT: BIOLOGY

ASSESSMENT	MONTHS	TOTAL DAYS	CONTENT	ACTIVITY/ LAB
PA1	MARCH	7	Ch: sexual reproduction in flowering plants.	Dissection of flower
	APRIL	23	Ch: sexual reproduction in flowering plants. Ch: Human reproduction Ch Reproductive health	Chart showing male and female reproductive system Understanding Reproductive health (ICR)
	MAY	13	Ch-Principle of inheritance and variation(Introduction) Revision	Collect information make a collage showing principles of inheritance and variation
TERM1	MAY	6	Ch: principles of	Group

			inheritance and variation	discussion on the topic principles of inheritance and variation
	JULY	14	Ch : Molecular basis of inheritance Ch: Evolution (Half)	Project work
	AUGUST	24	Ch: Evolution Ch: Human health and disease Ch: Microbes in human welfare	Lab activity- permanent slide showing microbes
	SEPTEMBER	6	Ch :Biotechnology principle and processes	Overview and explanation of chapter through ICR
		6	Ch :Biotechnology principle and processes Ch: Biotechnology and it's application (Introduction)	Overview and explanation of chapter through ICR

### SUBJECT: PHYSICS

ASSESSMENT	MONTH	DAYS	CONTENT	LAB ACTIVITIES
PA 1	March	7	Electric Charges and Fields	Show charges by friction.
	April	23	Electrostatic Potential and Capacitance Current Electricity Moving Charges and Magnetism	To determines resistivity of two / three wires by plotting a graph for potential difference versus current.  Working model-To find resistance of a given wire /

				<p>standard resistor using metre bridge.</p> <p>To verify the laws of combination (series) of resistances using a metre bridge.</p> <p>To assemble the components of a given electrical circuit. (Activity)</p> <p>To determine the resistance of a galvanometer by half deflection method and to its figure of merits.</p>
	May	13	Magnetism and Matter	To assemble a household circuit comprising three bulbs, three switches (ON/OFF) and power source. (Activity)
	May	6	Electromagnetic Induction	
Term 1	July	10	Alternating Current Electromagnetic Waves	
	August	23	Ray Optics and Optical Instruments  Wave Optics	<p>To find the value of <math>v</math> for different value of <math>u</math> in case of concave mirror and to find focal length.</p> <p>To find the focal length of convex mirror using a convex lens.</p> <p>To determine the angle of minimum deviation for a given prism by plotting a graph between angle of</p>

				incidence and angle of deviation. To determine refractive index of a glass slab using travelling microscope.
	September	06	Dual Nature of Radiation and Matter Atoms	Model- Atomic structure.
		06	Revision of T1	

### SUBJECT: MATHEMATICS

ASSESSMENT	MONTHS	TOTAL DAYS	CONTENT	ACTIVITY/ PRACTICALS
PA-1	MARCH	7	Chapter1: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	Chapter2:Inverse Trigonometric Functions Chapter3:Matrices	To demonstrate a function which is not one - one but is Onto
	MAY	13	Chapter4:Determinants	To draw the graph of $\sin^{-1}x$ using graph of $\sin x$ and Demonstration the concept of mirror reflection.

<b>Term 1</b>	MAY	6	Chapter 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	Chapter6:Applicati on of Derivatives	To understand the concept of Increasing and decreasing function
	AUGUST	24	Chapter7:Integrals	To verify that amongst all the rectangles of the same perimeter, the square has the maximum area.
	SEPTEMBER	6	Chapter 8: Application of Integrals	To construct an open box of maximum volume from given rectangular sheet by cutting equal from each corner.
	SEPTEMBER	06	Chapter 9: Differential Equations	To verify that angle in a semi circle is a right angle using vector method.
		06	Revision of T1	

**SUBJECT: CHEMISTRY**

<b>ASSESSMENT</b>	<b>MONTHS</b>	<b>TOTAL DAYS</b>	<b>CONTENT</b>	<b>LAB ACTIVITY (APPRATUS)</b>
PA-1	MARCH	7	Unit 1: SOLUTIONS	Preparation of crystals
	APRIL	23	Unit 1: SOLUTIONS UNIT 2:Electrochemistry	Preparation of crystals
	MAY	13	Unit : Chemical Kinetics	Volumetric titration
Term 1	MAY	6	Unit -4 d & f block elements	Volumetric titration
	JULY	14	Unit -4 d & f block elements Unit 5: Coordination compounds	Volumetric titration
	AUGUST	24	Unit 6: Haloalkanes & Haloarenes Unit 7: Alcohol, phenol & Ethers	Detection of functional groups
	SEPTEMBER	6	Unit 8- Aldehydes, ketones and carboxylic acids	Detection of functional groups
		6	Revision of T1	

**SUBJECT: PHYSICAL EDUCATION**

<b>Assessment</b>	<b>MONTHS</b>	<b>DAYS</b>	<b>CONTENT</b>	<b>ACTIVITY</b>
PA 1	MARCH	7	Chapter 1 Management of sporting events	Group discussion- ways to manage sports Tournament
	APRIL	23	Chapter 2: Children and women in sports Chapter 3:Yoga as preventive measure lifestyle disease	Demonstration- Asanas
	MAY	13	Chapter 4:Physical education and sports for CWSN	PPT on anyone game/ sports CWSN
Term1	MAY	06	Chapter 5: Sports nutrition	Chart preparation- Balanced diet.
	JULY	14	Chapter 6 :Test and measurement in sports	Fitness Test Sai khelo test in school
	AUGUST	24	Chapter 7: physiology and injuries in sports  Chapter 8:Biomechanics and sports	PPT Classify injuries joint and bones How to develop children's posture
	SEPTEMBER	06	Chapter 9:Psychology in sports	
		06	Revision of T1	



**SUBJECT: COMPUTER SCIENCE**

<b>ASSESSMENT</b>	<b>MONTHS</b>	<b>DAYS</b>	<b>CONTENT</b>	<b>LAB/PRACTICAL ACTIVITY</b>
PA-1	MARCH	07	Review of Python Basics	PRACTICAL
	APRIL	23	Functions	PRACTICAL
	MAY	24	Data File Handling	PRACTICAL –CSV FILE PREPRATION
Term-1	JULY	10	Data Structures in Python	PRACTICAL
	AUGUST	23	Relational Databases and SQL	DBMS ASSIGNMENT.
	SEPTEMBER	06 06	Interface Python with SQL Revision of T1	PROJECT REPORT & PRACTICAL FILE