

**MAHARSHI PATANJALI VIDYA MANDIR**  
**SYLLABUS**  
**CLASS IX (23-24)**



**Maharshi Patanjali Vidya Mandir, Prayagraj**

**Syllabus Breakup : 2023-24**

**Class : IX**

**SUBJECT: ENGLISH**

Month	Literature		Grammar & Writing Skills
	Beehive	Moments	
April	•The Fun They Had •The Road Not Taken (poem)	The Lost Child	• Tenses
May	•The Sound of Music •Wind (poem)	The Adventures of Toto	• Descriptive Paragraph on person/event/situation (100-120 words)
July	•The Little Girl •Rain on the Roof(poem)	Iswaran the Storyteller	• Subject-Verb Concord
August	•A Truly Beautiful Mind •The Lake Isle of Innisfree (poem)	In the Kingdom of Fools	• Modals
September	•The Snake and the Mirror •A Legend of the Northland (poem)	The Happy Prince	Writing Skills-Story Writing (on a given cue/title) 100-120 words
October	•My Childhood • No Men Are Foreign (poem)	The Last Leaf	Reported speech- ○ Statement ○ Question ○ Commands & Requests
November	•Reach For the Top •On Killing a Tree (poem)	A House is not a Home	Writing Skills- Diary Entry (100-120 words)
December	•Kathmandu • A Slumber did my Spirit Seal (poem)	The Beggar	Determiners
January	If I Were You		
February	Revision	Revision	Revision
Unit Test 1	The Fun They Had, The Road not Taken	The Lost Child	Tenses , Descriptive Paragraph
Half Yearly Examination	•The Fun They Had •The Road Not Taken (poem) •The Sound of Music •Wind (poem) •The Little Girl •Rain on the Roof(poem)	• The Lost Child • The Adventures of Toto • Iswaran the Storyteller • In the Kingdom of Fools • The Happy Prince	Tenses, Modals, Subject-Verb Agreement, Descriptive Paragraph, Story Writing.

	<ul style="list-style-type: none"> <li>•A Truly Beautiful Mind</li> <li>•The Lake Isle of Innisfree (poem)</li> <li>•The Snake and the Mirror</li> <li>•A Legend of the Northland (poem)</li> </ul>		
Unit Test 2	My Childhood, Reach For The Top, No Men Are Foreign.	The Happy Prince	Diary Entry, Reported Speech, Determiners
Annual Examination	The entire syllabus of Beehive, Moments, Grammar & Writing Skills given in the syllabus.		

### विषय- हिन्दी

पाठ्यपुस्तके---

- 1- क्षितिज भाग 1
- 2- कृतिका भाग 1
- 3- Together with हिन्दी व्याकरण।

अप्रैल- गद्य-पाठ-1 दो बैलों की कथा

पद्य—पाठ -9 साखी एवं सबद

व्याकरण- उपसर्ग,प्रत्यय,अलंकार

मई -समास व्याकरण भाग की आवृत्ति

जुलाई- गद्य-पाठ-2 लहासा की ओर

पद्य-पाठ- 10 वाख

कृतिका पाठ-1-इस जल प्रलय में

व्याकरण- अर्थ के आधार पर वाक्य के भेद

प्रथम ईकाई परीक्षा – गद्य खंड- दो बैलों की कथा,पद्यखंड-कबीर साखी ,सबद,कृतिका-इस जल प्रलय में।व्याकरण-उपसर्ग और प्रत्यय ।क्रियाकलाप-कविता वाचन

अगस्त -गद्य-पाठ-3 उपभोक्तावाद की संस्कृति

पद्य-पाठ-11रसखान के सवैये

पाठ-12 कैदी और कोकिला

व्याकरण- औपचारिक एवं अनौपचारिक पत्र लघुकथा।

सितम्बर -पाठ- 4 साँवले सपनों की याद

पाठ 6-प्रेमचन्द के फटे जूते

कृतिका-मेरे संग की औरतें

व्याकरण -संवाद लेखन,अपठित गद्यांश सूचना लेखन, ई-मेल लेखन

अर्धवार्षिक परीक्षा पाठ्यक्रम

गद्य—पाठ 1-दो बैलों की कथा,पाठ-2ल्हासा की ओर, पाठ-3 उपभोक्तावाद की संस्कृति पाठ-4 साँवले सपनों की याद ।पद्य- पाठ -9 साखियाँ, सबद पाठ 10-वाख,पाठ 11- रसखान के सवैये,पाठ 12- कैदी और कोकिला

कृतिका- इस जल प्रलय में, मेरे संग की औरतें,,

व्याकरण-उपसर्ग, प्रत्यय, समास,अर्थ के आधार पर वाक्य भेद,अलंकार, पत्र- लेखन, संवाद -लेखन, लघुकथा लेखन,ई-मेल लेखन, सूचना लेखन अनुच्छेद लेखन एवं अपठित गद्यांश।

अक्तूबर-पद्य-पाठ-13 ग्राम श्री

कृतिका- रीढ़ की हड्डी

नवम्बर- गद्य-पाठ-7 मेरे बचपन के दिन

पद्य- पाठ-15 मेघ आए

व्याकरण-पूर्व में पढ़ाए गए व्याकरणिक अंशों का अभ्यास ।

दिसम्बर-

गद्य खंड-प्रेमचन्द के फटे जूते व्याकरणिकअंशों का अभ्यास ।

जनवरी- पद्य-पाठ-17 बच्चे काम पर जा रहे हैं।

द्वितीय ईकाई परीक्षा- गद्य खंड-प्रेमचन्द के फटे जूते, ग्राम श्री कृतिका-रीढ़ की हड्डी

व्याकरण-समास

क्रियाकलाप -श्रवण कला-कौशल परीक्षा

फरवरी-सम्पूर्ण पाठ्यक्रम का पुनः अभ्यास

वार्षिक पाठ्यक्रम-अप्रैल से फरवरी-सम्पूर्ण तक पढ़ाए गए समस्त पाठ (सैपल पेपर का अभ्यास)

### **SUBJECT: MATHEMATICS**

#### **TERM I**

#### **APRIL : CHAPTER 1- NUMBER SYSTEM**

Introduction of Number system

Irrational Numbers

Real Numbers & their Decimal expansions

Operations on real numbers

Laws of Exponents for Real Numbers

**MAY : CHAPTER 6 - LINES AND ANGLES**

Introduction of the Topic

Basic Terms & Definitions

Intersecting Lines & Non- Intersecting Lines

Pair of Angles

Lines Parallel to the same line

**JULY : CHAPTER 2 - POLYNOMIALS**

Introduction of the Topic

Polynomials in one variables

Zeros of Polynomials

Factorisation of a Polynomials

Algebraic Identities

**CHAPTER 7: TRIANGLES**

Introduction of the Topic

Congruence of Triangles

Criteria for Congruence of Triangles

Some Properties of Triangles

Some more criteria for congruence of Triangles

**AUGUST : CHAPTER 3 - COORDINATE GEOMETRY**

Introduction

Cartesian System

**CHAPTER 4 - LINEAR EQUATION IN TWO VARIABLES**

Introduction of the Topic

Linear Equations

Solution of a Linear Equation

**CHAPTER 10- HERON'S FORMULA**

Introduction of the Topic

Area of Triangle – By Heron's Formula

**SEPTEMBER : CHAPTER 5- Introduction to Euclid's Geometry**

Introduction

Euclid's Definitions, Axioms and Postulates

## CHAPTER 12- STATISTICS

Introduction

Graphical Representation of Data

### 1<sup>st</sup> Unit Test:

Number System, Lines & Angles

### Half Yearly:

All the Topics Covered till September

## TERM II

### OCTOBER : CHAPTER 8- QUADRILATERALS

Properties of a Parallelogram

The Mid Point Theorem

### NOVEMBER : CHAPTER 9 - CIRCLES

Introduction of the Topic

Angle Subtended by a Chord at a point

Perpendicular from the centre to a chord

Equal Chords and their distances from the Centre

Angle Subtended by an arc of a Circle

Cyclic Quadrilaterals

### DECEMBER : CHAPTER 11 - Surface Area and Volumes

Surface Area of Right Circular Cone

Surface Area of A Sphere

Volume of a Right Circular Cone

Volume of a Sphere

### 2<sup>nd</sup> Unit Test: Quadrilaterals and Circles

### Annual Examination:

All the Topics Covered i.e. Complete Syllabus

Several Activities related to the topics would be given.

### SUBJECT: SCIENCE

### BIOLOGY & CHEMISTRY

## TERM- I

Month	Chapters	Topics
April	The fundamental unit of life	Discovery, Plasma membrane, nucleus, cell wall, cytoplasm, endoplasmic reticulum, Golgi apparatus, lysosomes, mitochondria, plastids, vacuoles, cell division.

<b>May</b>	Matter in our surroundings	Physical nature of matter, characteristics of particles of matter, states of matter, evaporation.
<b>July</b>	Is matter around us pure	Mixture, solution, suspension, physical and chemical changes, compound.
<b>August</b>	Tissues	Plant tissues-simple and complex permanent tissues.
<b>September</b>	Tissues	Animal tissues- epithelial tissue connective, muscular and nervous tissue

## **TERM- I**

**Chapters- 1,2,5,6**

**UT-1-chapters**-The fundamental unit of life and Matter in our surroundings.

**Half yearly exam-Chapter- 1,2,5,6**

**Term 1 Practical-**

**List of Experiments**

**Biology:**

Preparation of stained temporary mount of

1. Onion peel.
2. Human cheek cells and to record observations and draw their labelled diagrams.

**Chemistry:**

Unit-I Preparation of

- a) a true solution of common salt, sugar and alum
- b) a suspension of soil, chalk powder and fine sand in water
- c) a colloidal solution of starch in water and egg albumin/milk in water and distinguish between these on the basis of :-

\* Transparency

\*Filtration criterion

\*Stability

2. Preparation of

- a) A mixture
- b) A compound

using iron filings and sulphur powder and distinguishing between these on the basis of:

(i) appearance, i.e., homogeneity and heterogeneity

(ii) behaviour towards a magnet

(iii) behaviour towards carbon disulphide as a solvent

(iv) effect of heat

## **TERM II**

<b>Month</b>	<b>Chapters</b>	<b>Topics</b>
<b>October</b>	Atoms and molecules	Laws of chemical combination, atoms and molecules.
<b>November</b>	Atoms and molecules	Ions, writing a chemical formula, molecular mass.

	Improvement in food resources	Crop variety improvement, nutrient management, cropping patterns.
<b>December</b>	Improvement in food resources	Animal husbandry
<b>January</b>	Structure of atom	Charged particles in matter, different models of structure of atom.
<b>February</b>	Structure of atom	atomic number, mass number, isotopes, isobars.

**UT-2-Chapters-** Improvement in food resources (Crop variety improvement, nutrient management, cropping patterns), Atoms and molecules

**Final exam-** Complete syllabus

**Term 2 Practical-**

**List Of Experiments**

**Biology:**

Identification of parenchyma, collenchyma and sclerenchyma tissues in plants, stripped, smooth and cardiac muscle fibers and nerve cells in animals from prepared slides.

**Chemistry practical**

3) Perform the following reactions and classify them as physical or chemical changes:

- Iron with copper sulphate solution in water
  - Burning of magnesium ribbon in air
  - Zinc with dilute sulphuric acid
  - Heating of copper sulphate crystals
  - Sodium sulphate with barium chloride in the form of their solutions in water
- 4) Determination of the melting point of ice and the boiling point of water.

5) Verification of the law of conservation of mass in a chemical reaction.

**Note: Chapter:** Chapter natural resources (for internal assessment)

## **PHYSICS**

<b>April</b>	<b>Motion</b>	Distance and Displacement, Velocity, Uniform and non-uniform motion along a straight line; acceleration
<b>May&amp; June</b>		distance-time and velocity-time graphs for uniform and uniformly accelerated motion.
<b>July</b>	<b>Motion</b>  <b>Force and Newton's Laws</b>	Equation of motion by graphical method; elementary idea of uniform circular motion. Force and motion, Newton's laws of motion, inertia of a body, inertia and mass, momentum, force and acceleration



<b>August</b>		Elementary idea of conservation of momentum, action and reaction forces.
<b>September</b>	<b>Gravitation</b>	Gravitation, universal law of gravitation, force of gravitation of the earth (gravity), acceleration due to gravity, mass and weight, free fall.
<b>October</b>	<b>Floatation</b>	Thrust and pressure. Archimedes' principle, buoyancy, elementary idea of relative density.
<b>November</b>	<b>Work, energy and power</b>	Work done by a force, energy, power, kinetic and potential energy.
<b>December</b>		Work, energy and power: Law of conservation of energy.
<b>January</b>	<b>Sound</b>	Nature of sound and its propagation in various media, speed of sound, range in humans.
<b>February</b>	<b>Sound</b>	Ultrasound, reflection of sound, echo and SONAR. Structure of the human ear (auditory aspect only)

**First Unit Test :-Motion.**

**Activity:-Students have also to make assignment copy.**

**Half yearly:-Motion, Force & Newton's Laws and Gravitation**

**Activity:- Students have also to give practical examination**

**Second unit test:- Floatation and Work Energy & Power.**

**Annual Examination:- Complete syllabus**

**(Motion, Force, Gravitation, Floatation, Work Power & Energy & Sound)**

**Syllabus Break Up (2023-24)**

### **Physics Practical**

**Before Half Yearly**

- 1. Determination of the density of solid (denser than water) by using a spring balance and a measuring cylinder.**

**After Half Yearly**

- 2. Establishing the relation between the loss in weight of a solid when fully immersed in  
(i) tap water (ii) strongly salty water, with the weight of water displaced by it by taking at least two different solids.**
- 3. Determination of the speed of a pulse propagated through a stretched string / slinky.**

**SUBJECT : SOCIAL SCIENCE****History /Civics**

MONTH	SUBJECT	CHAPTERS
April	History	1. The French Revolution
May	History	1. The French Revolution (continued)
July	Civics	1. What is Democracy? Why Democracy?
August	History	2. Socialism in Europe and the Russian Revolution
<b>UNIT TEST-1</b>	<b>History</b>	<b>1. The French Revolution</b>
September	Civics	2. Constitutional Design 3. Electoral Politics
<b>HALF YEARLY EXAMINATION</b>		<b>Syllabus till September.</b>
October	History	3. Nazism and the Rise of Hitler
November	History	3. Nazism and the Rise of Hitler (continued)
December	Civics History	4. Working of Institutions 4. Forest Society and Colonialism (not to be assessed in examination) (Group Discussion)
<b>UNIT TEST- 2</b>	<b>History</b> <b>Civics</b>	<b>3. Nazism and the Rise of Hitler</b> <b>4. Working of Institutions</b>
January	Civics	5. Democratic Rights
February	History	5. Pastoralists in the Modern World (not to be assessed) [group activity]
<b>ANNUAL EXAMINATION</b>		<b>Complete Syllabus.</b>

**GEOGRAPHY / ECONOMICS****1. GEOGRAPHY**

MONTH	LESSON	NAME OF THE CHAPTERS	TOPIC / SUB TOPIC
April	L-1	India:- Size and location	1.Location 2.Size

			3.India and the World 4.India's Neighbours •States and •Union Territories 5.Map work
July	L-2	Physical features of India	1.Introduction 2.Major Physiographic Divisions •All physical features of India 3.Unique features of each Physiographic region •As a source of resources 4.Map work
July	L-3		Drainage 1.Drainage •Drainage basin •Water divide 2.Drainage Systems In India •The Himalayan Rivers- Perennials rivers •The Peninsular Rivers- Seasonal rivers 3.Lakes 4.Role Of Rivers In The Economy 5.River Pollution •Sources of pollution. •consequences of pollution. •NRCP (National River Conservation Plan) 6.Map work
September	L-4	Climate	1.Climate and Weather 2.Climatic Controls 3.Factors Affecting India's Climate •Coriolis Force 4.The Seasons 5.Distribution Of Rainfall 6.Monsoon As A Unifying Bond 7.Map work- India Annual Rainfall Regions
October	L-5	Natural vegetation and wildlife	1.Natural Vegetation Or Virgin vegetation 2.Types of Vegetation 3.Some Medicinal Plants •Different Species: Animals, Birds & Fish •Conservation of Wildlife 4.Wildlife : •Biosphere Reserves & National Parks 5.Migratory Birds 6.Map work

December	L-6	Population	1.Population Size And Distribution <ul style="list-style-type: none"> <li>•By Number</li> <li>•By Density</li> </ul> 2.Population Growth 3.Processes of Population Change <ul style="list-style-type: none"> <li>•Birth Rate</li> <li>•Death Rate</li> <li>•Migration</li> </ul> 4.Adolescent Population 5.National Population Policy, 2000 6.Census 7.Map work
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Unit test-1, L-1 India: Size and location

Activity : Activity based on chapter number 05 (Natural Vegetation and Wildlife)

Half yearly L-1,2,3 and Maps of all three chapters

Unit test – 2, L-4 Climate

Annual Examination- All chapters and Maps of all chapters

## 2. ECONOMICS

MONTH	LESSON	NAME OF THE LESSON	TOPIC / SUB TOPIC
May	L-1	The story of village Palampur	1.Introduction of Village 2.Organisation of Production 3.Activities in Palampur <ul style="list-style-type: none"> <li>•Farming Activities</li> <li>•Non – Farming Activities</li> </ul>
August	L-2	People as Resource	1.Introduction 2.Story of Sakal & Vilas 3.Economic Activities by Men & Women 4.Quality of Population 5.Unemployment
November	L-3	Poverty as a Challenge	1.Introduction : Poverty 2.Cases of Poverty <ul style="list-style-type: none"> <li>•Urban Case</li> <li>•Rural Case</li> </ul> 3.Issues related to Poverty 4.Poverty as seen by social scientists : <ul style="list-style-type: none"> <li>•Indicators of Poverty</li> <li>•Analysis : Social exclusion &amp; Vulnerability</li> </ul> 5.Poverty Line 6.Poverty Estimates 7.Vulnerable Groups <ul style="list-style-type: none"> <li>•Social Group</li> </ul>

			<ul style="list-style-type: none"> <li>•Economic Group</li> <li>8.Inter-State Disparities</li> <li>9.Global Poverty Scenario</li> <li>10.Causes of Poverty</li> <li>11.Anti-Poverty Measures</li> <li>12.The Challenges Ahead</li> </ul>
January	L-4	Food Security in India	1.Introduction : Food Security <ul style="list-style-type: none"> <li>•Dimensions of Food Security</li> <li>•Why Food Security?</li> <li>•Who are Food-insecure</li> <li>•Story of Ramu &amp; Ahmad</li> </ul> 2.India's aim at self-sufficiency in Foodgrains since Independence 3.Food security in India: Green Revolution 4.Food Security System <ul style="list-style-type: none"> <li>•Buffer Stock</li> <li>•Public Distribution System</li> <li>•NFS Act, 2013</li> <li>•Antyodaya Anna Yojana</li> </ul> 5.Role of Cooperatives in Food Security.

Unit test-1, L-1 The story of village Palampur

Half Yearly L-1,2

Unit test-2 L-3 Poverty as challenge

Annual Examination- All chapters

### **SUBJECT: IT**

<b>April</b>	Part A: Unit 3 - Basic ICT Skills-I (1,2,3 sessions)
<b>May</b>	Part A: Unit 3 - Basic ICT Skills-I (Session 4,5,6,7)
<b>July</b>	Part A: Unit 4 – Entrepreneurial Skills (All sessions) and Part B: Unit 2 – Data Entry and Keyboarding Skills (All sessions)
<b>August</b>	Part B: Unit 1- Introduction to IT-ITeS Industry. (All Sessions) Part B: Unit 3 - Digital Documentation (Session 1,2)
<b>September</b>	Part B: Unit 3 - Digital Documentation (All Sessions)
<b>October</b>	Part A: Unit 1 - Communication Skills (All Sessions)
<b>November</b>	Part B: Unit 4: Electronic Spreadsheet (All Sessions)
<b>December</b>	Part A: Unit 2: Self-Management Skills (All Sessions) and Part B: Unit 5 – Digital Presentation (Session 1,2)
<b>January</b>	Part B: Unit 5 – Digital Presentation (All Sessions)
<b>February</b>	Part A: Unit 5 – Green Skills-I (All Sessions) and Revision

## **Unit Test – 1**

### **Part A:**

#### **Unit - 3 Basic ICT Skills - I**

- Session -1 – ICT and its impact
- Session - 2 – Basics of a computer system and a mobile device
- Session - 3 – Input, output, memory and storage devices of a computer system.
- Session - 4 - Basic Computer operations

## **Half Yearly Exam**

### **Part A:**

- Unit - 3 Basic ICT Skills-I (All sessions)
- Unit - 4 Entrepreneurial Skills (All sessions)

### **Part B:**

- Unit - 1 Introduction to IT- ITeS industry (All sessions)
- Unit - 2 Data entry & Keyboarding Skills (All sessions)
- Unit - 3 Digital Documentation (1,2 sessions)

## **Unit Test -2**

### **Part B:**

- Unit - 3 Digital Documentation (All sessions)

## **Annual Exam**

### **Part A:**

- Unit - 1 Communication Skills (All sessions)
- Unit - 2 Self-Management (All sessions)
- Unit - 5 Green Skills-I (All sessions)

### **Part B:**

- Unit - 4 Part-B “Electronic Spreadsheet” (All sessions)
- Unit - 5 Part-B “Digital Presentation” (All sessions)