

MGM HIGHER SECONDARY SCHOOL, B S CITY

SYLLABUS BREAKUP 2024-25

CLASS IX ARTIFICIAL INTELLIGENCE(417)

Month	Week	Chapter Number, Name & Topic
April	1 st	<u>1. INTRODUCTION TO AI:</u> Introduction to AI and setting up the context of the curriculum
	2 nd	<u>Ice Breaker Activity: Dream Smart Home idea.</u> Learners to design a rough layout of floor plan of their dream smart home.
	3 rd	<u>Recommended Activity: The AI Game</u> Learners to participate in three games based on different AI domains. Game 1: Rock, Paper and Scissors (based on data) Game 2: Mystery Animal (based on Natural Language Processing - NLP) Game 3: Emoji Scavenger Hunt (based on Computer Vision - CV) <u>Recommended Activity:</u>
	4 th	AI Quiz (Paper Pen/Online Quiz) <u>Recommended Activity: To write a letter</u> <u>Writing a Letter to one's future self</u> Learners to write a letter to self-keeping the future in context. They will describe what they have learnt so far or what they would like to learn someday
	5 th	<u>Video Session:</u> Introducing the concept of Smart Cities, Smart Schools and Smart Homes <u>Recommended Activity: Write an Interactive Story</u> Learners to draw a floor plan of a Home/School/City and write an interactive story around it using Story Speaker extension in Google docs.
May	1 st	Introduction to sustainable development goals <u>Recommended Activity: Go Goals Board Game</u> Learners to answer questions on Sustainable Development Goals
	2 nd	<u>Theme-based research and Case Studies:</u> Learners will listen to various case studies of inspiring start-ups, companies or communities where AI has been involved in real-life.
	3 rd	<u>Theme-based research and Case Studies:</u> Learners will be allotted a theme around which they need to search for present AI trends and have to visualize the future of AI in and around their respective theme
June	4 th	<u>Recommended Activity: Job Ad Creating activity</u> # Learners to create a job advertisement for a firm describing the nature of job available and the skill-set required for it 10 years down the line. They need to figure out how AI is going to transform the nature of jobs and create the Ad accordingly.
	5 TH	<u>Video Session: Discussing about AI Ethics</u> <u>Recommended Activity: Ethics Awareness</u> Students play the role of major stakeholders and they have to decide what is ethical and what is not for a given scenario.
	2 nd	<u>AI Bias and AI Access</u> Discussing about the possible bias in data collection. Discussing about the implications of AI technology.

July	3 rd	Recommended Activity: Balloon Debate Students divide in teams of 3 and 2 teams are given same theme. One team goes in affirmation to AI for their section while the other one goes against it. They have to come up with their points as to why AI is beneficial/harmful for the society.
	4 th	2: AI PROJECT CYCLE Introduction to AI Project Cycle Problem Scoping Data Acquisition Data Exploration Modelling Evaluation
	5 TH	Activity: Brainstorm around the theme provided and set a goal for the AI project. Discuss various topics within the given theme and select one. List down/ Draw a mind map of problems related to the selected topic and choose one problem to be the goal for the project.

Aug	1 st	<u>Problem Scoping</u> Activity: To set actions around the goal. List down the stakeholders involved in the problem. Search on the current actions taken to solve this problem. Think around the ethics involved in the goal of your project.
	2 nd	Activity: Data and Analysis What are the data features needed? Where can you get the data? How frequent do you have to collect the data?
	3 rd	What happens if you don't have enough data? What kind of analysis needs to be done? How will it be validated? How does the analysis inform the action? Presentation: Presenting the goal, actions and data.
	4 th	<u>Data Acquisition</u> Activity: Introduction to data and its types. # Students work around the scenarios given to them and think of ways to acquire data.
	5 th	<u>Data Exploration</u> Recommended Activity: Let's use Graphical Tools # To decide what kind of data is required for a given scenario and acquire the same. # To select an appropriate graphical format to represent the data acquired. # Presenting the graph sketched
	1 st	<u>Modelling</u> Decision Tree To introduce basic structure of Decision Trees to students. Recommended Activity: Decision Tree To design a Decision Tree based on the data given.

September	2 nd	Recommended Activity: Pixel It To create an “AI Model” to classify handwritten letters. Students develops a model to classify handwritten letters by diving the alphabets into pixels.
	3 rd	<u>Half yearly exam</u>
	4 th	Pixels are then joined together to analyze a pattern amongst same alphabets and to differentiate the different ones.
	5 th	Neural network Relation between the neural network and nervous system in human body. Describing the function of neural network.
October	1 st	Recommended Activity: Creating a Human Neural Network Students split in four teams each representing input layer (X students), hidden layer 1 (Y students), hidden layer 2 (Z students) and output layer (1 student) respectively. Input layer gets data which is passed on to hidden layers after some.
	2 nd	Discussing layers of Artificial Neural Network. Input layer Hidden layer Output layer
	3 rd	AI lab experiment related to Input Layer, Hidden layer and Output layer.
	4 th	INTRODUCTION TO PYTHON High level programming language, Jupyter Notebook
	5 th	Data types- Integer, Float, String and Boolean
November	1 st	Recommended Activity: Introduction to programming using Online Gaming portals like Code Combat.
	2 nd	Session: Introduction to Python language Introducing python programming and its applications
	4 th	Gaming App Code combat game introduction to teach python methods and functions.
	5 th	Practical: Python Python Basics Variables, Arithmetic Operators, Expressions.
December	1 st	Practical: Python Basics Data Types – Integer, float, strings, using print() and input() functions
	2 nd	Simple problem solving exercises on Python Compiler. Practical: Python Lists
	3 rd	Students go through lessons on Python Lists (Simple operations using list)
	4 th	Students go through lessons on Python Lists (Simple operations using list)
January	1 st	Practical: Python Lists
	2 nd	Students will try some basic problem solving exercises using lists on Python Compiler.
	3 rd	Practical exam
	4 th	Revision for Annual Exam

ARTIFICIAL INTELLIGENCE (SUBJECT CODE 417)

CLASS – IX (SESSION 2024-2025)

HALF YEARLY PORTION

Total Marks: 100 (Theory-50 + Practical-50)

	UNITS	NO. OF HOURS for Theory and Practical	MAX. MARKS for Theory and Practical
PART A	Employability Skills		
	Unit 1: Communication Skills-I*	10	-
	Unit 2: Self-Management Skills-I	10	5
	Unit 3: ICT Skills-I	10	5
	Total	30	10
PART B	Subject Specific Skills		
	Unit 1: Introduction to Artificial Intelligence (AI)		25
	Unit 2: AI Project Cycle		15
	Total		40
PAR T C	Practical Work		
	Unit 2: AI Project Cycle Practical File on how to create AI project cycle for sustainable development.		15
	Practical Examination <ul style="list-style-type: none">Student will explain their AI project that they have created as power point slides.		15
	Viva Voce		5
	Total		35
PART D	Project Work / Field Visit / Student Portfolio <i>* relate it to Sustainable Development Goals</i>		15
	Total		15
	GRAND TOTAL	200	100

Note: * marked units are to be assessed through Internal Assessment/ Student Activities. They are not to be assessed in Theory Exams

ARTIFICIAL INTELLIGENCE (SUBJECT CODE 417)

CLASS – IX (SESSION 2024-2025)

ANNUAL PORTION

Total Marks: 100 (Theory-50 + Practical-50)

	UNITS	NO. OF HOURS for Theory and Practical	MAX. MARKS for Theory and Practical
PART A	Employability Skills		
	Unit 1: Communication Skills-I*	10	-
	Unit 2: Self-Management Skills-I	10	3
	Unit 3: ICT Skills-I	10	3
	Unit 4: Entrepreneurial Skills-I	15	4
	Unit 5: Green Skills-I*	05	-
	Total	50	10
PART B	Subject Specific Skills		
	Unit 1: Introduction to Artificial Intelligence (AI)		10
	Unit 2: AI Project Cycle		15
	Unit 3: Neural Network		5
	Unit 4: Introduction to Python		10
	Total		40
PART C	Practical Work		
	Unit 4: Introduction to Python Practical File with minimum 15 Programs		15
	Practical Examination <ul style="list-style-type: none">Simple programs using input and output functionVariables, Arithmetic Operators, Expressions, Data TypesFlow of control and conditionsLists <i>* Any 3 Programs based on the above topics</i>		15
	Viva Voce		5
	Total		35
PART D	Project Work / Field Visit / Student Portfolio <i>* relate it to Sustainable Development Goals</i>		15
	Total		15
	GRAND TOTAL	200	100

Note: * marked units are to be assessed through Internal Assessment/ Student Activities

MGM HIGHER SECONDARY SCHOOL, B S CITY

SYLLABUS BREAK-UP YEAR 2024-2025

CLASS- IX

SUBJECT: BIOLOGY

MONTH	WEEK	CHAPTER NAME AND TOPICS
APRIL	1 st	1. THE FUNDAMENTAL UNIT OF LIFE Introduction, discovery of cell, cell as a basic unit of life, Practical- To prepare a temporary mount of onion peel
	2 nd	variation in shape, size, variation in number of cell, Functional regions of cell,
	3 rd	Plasma membrane: features and functions. Transportation across plasma membrane- diffusion,
	4 th and 5 th	Osmosis, endocytosis, cell wall
MAY	1 st	Nucleus: structure and function Eukaryotic and prokaryotic cells
	2 nd	Cytoplasm, Cell organelles Practical- To prepare a temporary mount of cheek cell Features and functions of Endoplasmic Reticulum
	3 rd	Golgi apparatus, Lysosomes, Mitochondria
JUNE	4 th and 5 th	Plastids, Vacuoles, Cell Division
JULY	1 st	2. TISSUES: Introduction, are plants and animals made of same type of tissues? Plant tissues- Meristematic tissues,
	2 nd	Revision 1st periodic test
	3 rd	Permanent tissues- features Simple Permanent Tissue- Parenchyma: features and functions
	4 th and 5 th	Collenchyma and Sclerenchyma tissues: features and functions
AUGUST	1 st and 2 nd	Protective tissues: epidermis, cork
	3 rd	Complex permanent tissues- Xylem and Phloem tissues
	4 th	Practical- Identification of parenchyma, collenchyma, and sclerenchyma tissues in plants Notes
	5 th	REVISION FOR HALF YEARLY EXAMINATION (Fundamental unit of life)
SEPTEMBER	1 st	REVISION FOR HALF YEARLY EXAMINATION (Plant tissues)
	2 nd and 3 rd	HALF YERLY EXAMINATION
	4 th	Animal tissues- Epithelial tissue
OCTOBER	1 ST and 2 nd	connective Tissues,
	3 rd	Muscular tissue, Nervous tissue
	4 th	Practical- Identification of , striped, smooth and cardiac muscle fibres and nerve cells in animals. 3. IMPROVEMENT OF FOOD RESOURCES: Introduction, sustainable agriculture
	5 th	Crops, Improvement in yields
NOVEMBER	2 nd and 3 rd	Crop varietal management
	4 th	Revision for 2nd periodic test
	5 th	Crop production management, nutrition management, micronutrients and macro nutrients
DECEMBER	1 st	fertilizers and manure, organic farming

	2 nd	Irrigation, cropping patterns: mixed cropping, inter cropping, crop rotation
	3 rd	Protection from weeds pests and diseases; Storage of grains
	1 st and 2 nd	cattle farming, poultry farming,
	3 rd	Fish farming, bee keeping
	4 th	Revision
	5 th	Revision

Portion for Assessments (2024-25)

1st Periodic test:

- Fundamental unit of life

Half Yearly examination:

- Fundamental unit of life
- Tissues (up to plant tissues)

2nd Periodic test:

- Fundamental unit of life
- Tissues

Annual Examination

- Fundamental unit of life
- Tissues
- Improvement of Food Resources

MGM HIGHER SECONDARY SCHOOL BOKARO
YEAR PLAN WITH MONTHLY PLAN 2024-2025

CLASS – 9
SUBJECT – CHEMISTRY

<u>MONTH</u>	<u>WEEK</u>	<u>CHAPTER NAME AND TOPIC</u>
April	1 st	Ch -01 Matter in our Surroundings Introduction of matter, classification of matter, physical nature of matter, characteristics of particles of matter
	2 nd	States of matter, Properties of solid state, properties of liquid state
	3 rd	Properties of gaseous state, comparison of general properties of solid liquid and gases
	4 th and 5 th	Scales of measuring temperature, effect of change of temperature on states of matter
May	1 st and 2 nd	Effect of change of temperature (continued) Latent heat of fusion and latent heat of vaporization
	3 rd	Sublimation and applications of sublimation, interconversion of states of matter
June	4 th Week	Effect of change of pressure, evaporation, Factors affecting evaporation
	5 th Week	Difference in boiling and evaporation, exercise questions
July	1 st	Ch -02 Is Matter Around Us Pure Pure substance, types and properties of pure substances, elements-properties of metals; non-metals, metalloids
	2 nd	Compounds, mixture, properties of compound and mixture Practical – To study the properties of compound and mixture using Sulphur powder and iron filings
	3 rd	Solution, Properties of solution, Concentration of a solution
	4 th and 5 th	Solubility, Numerical on concentration of solution and solubility
August	1 st and 2 nd	Suspension and properties of Suspension, Types of colloids, properties of colloids
	3 rd	Comparison of characteristics of true solution, suspension and colloidal solution Practical – Preparation of true solution, Suspension and Colloid and distinguish between these on the basis of transparency, filtration and stability
	4 th	Physical and Chemical change, Exercise questions Practical -Perform the different types of reactions and classify them as physical and chemical changes
	5 th	Ch -03 Atoms and Molecules Laws of chemical combination and law of conservation of mass and law of constant proportion
September	1 st	Revision
	2 nd and 3 rd	Half Yearly Exam
	4 th	Dalton's Atomic theory and its drawbacks

October	1 st and 2 nd	Atoms, size of atom, symbols of elements, atomic mass
	3 rd	Molecules of elements, Molecules of compounds, atomicity
	4 th	Ions and type of ions Practical – Determination of Melting point of ice and boiling point of water
	5 th	Formation of Ion, Chemical formula
November	2 nd and 3 rd	Chemical formula (continued) Gram atomic mass, gram molecular mass, gram formula unit mass
	4 th	Exercise Questions
	5 th	Ch -04 Structure of The Atom Introduction Existence of charged particle Discovery of electron, cathode rays and its properties
December	1 st Week	Discovery of proton, origin and properties of anode rays
	2 nd Week	Thomson's model of atom, Rutherford's model of atom, Drawbacks of Rutherford's atomic model
	3 rd Week	Bohr's model of atom, Discovery of neutron, atomic number and mass number Practical – Verification of Law of conservation of mass in a chemical reaction.
January	1 st and 2 nd	Valence electron and valency, Distribution of electrons in different shells
	3 rd	Reason for fractional atomic mass, Isotopes and Isobars, Properties and applications of Isotopes
	4 th	Exercise Questions
	5 th	Revision
February	1 st	Revision

Periodic Test Portion

S.NO.	Chapter Name	Weightage
1 st Periodic Test (15.7.24)	1.Matter in our surroundings	16M
2 nd Periodic Test (25.11.24)	1. Matter in our surroundings	3M
	2.Is Matter Around Us Pure?	6M
	3.Atoms and Molecules (Upto Chemical Formula)	7M

Portion for Half yearly and Annual Exam

EXAM	CHAPTER NAME	CHAPTER WEIGHTAGE
Half yearly Exam	1. Matter in our Surrounding	13M
	2. Is Matter Around Us Pure?	12M
Annual Exam	1. Matter in our Surrounding	4M
	2. Is Matter Around Us Pure?	5M
	3. Atoms and Molecules	8M
	4. Structure of The Atom	8M

M.G.M. HIGHER SECONDARY SCHOOL, B. S. CITY			
SYLLABUS BREAK-UP (ENGLISH LANGUAGE AND LITERATURE- 184)			
CLASS IX (2024-2025)			
MONTH	WEEK	DATE	CHAPTER/TOPICS
APRIL	Week 1	3rd to 5th	* <i>Introduction to the New Session</i>
			* Gr- Tenses (Verb Forms)
	Week 2	8th to 10th	* Gr- Tenses (Verb Forms) (Contd.)
		12th to 13th	* Gr- Tenses (Verb Forms) (Contd.)
	Week 3	15th to 16th	* Wr- Diary Entry
		18th to 20th	* MCB- The Fun They Had
	Week 4	22nd to 27th	* MCB- The Road Not Taken (Poem)
			* MCB- The Sound of Music (Part 1)
	Week 5	29th to 30th	* Gr- Modals
MAY	Week 1	1st to 4th	* MCB- The Sound of Music (Part 2)
	Week 2	6th to 11th	* MCB- Wind (Poem)
			* SR- The Lost Child
	Week 3	13th to 18th	* Wr- Descriptive Paragraph (Person)
			* Gr- Gap Filling (Modals)
			* MCB- The Little Girl
	Week 4		<i>Summer Break</i>
			<i>Summer Break</i>
	Week 5		<i>Summer Break</i>
			<i>Summer Break</i>
			<i>Summer Break</i>
JUNE	Week 1		<i>Summer Break</i>
			<i>Summer Break</i>
			<i>Summer Break</i>
	Week 4	20th to 22nd	* Wr- Descriptive Paragraph (Situation)
	Week 5	24th to 29th	* SR- The Adventures of Toto
			* Wr- Descriptive Paragraph (Event)
JULY	Week 1	1st to 6th	* MCB- Rain on the Roof (Poem)
			* Integrated Grammar
			* Comprehension Passage
	Week 2	8th to 13th	* SR- Iswaran the Storyteller
			* Wr- Story Writing
			* Revision for PT1
	Week 3	15th to 16th	(PT1 Begins)
			* MCB- A Truly Beautiful Mind
			* MCB- A Truly Beautiful Mind (Contd.)
	Week 4	22nd to 27th	* MCB- The Lake Isle of Innisfree (Poem)
			* Subject-Verb Agreement
			* Showing of PT1 Copies

	Week 5	29th to 31st	* Subject-Verb Agreement (Contd.)
			* Integrated Grammar
AUGUST	Week 1	1st to 2nd	* SR- In the Kingdom of Fools
	Week 2	5th to 10th	* SR- In the Kingdom of Fools (Contd.)
			* Gr- Reported Speech (Statements)
	Week 3	12th to 14th	* Gr- Reported Speech (Questions)
			* Gr- Reported Speech (Commands)
		16th to 17th	* Gr- Reported Speech (Requests)
	Week 4	20th to 24th	* MCB- The Snake and the Mirror
			* Multiple Assessments
			* ALS
	Week 5	27th to 31st	Revision for HY Exam
SEPTEMBER	Week 1	2nd to 7th	Revision for HY Exam
	Week 2		Half Yearly Exam
	Week 3		Half Yearly Exam
	Week 4	23rd to 28th	* Discussion of HY Marking Scheme
			* Showing of HY Answer Script
			* MCB- A Legend of the Northland (Poem)
	Week 5	30th	* Gr- Integrated Grammar
OCTOBER	Week 1	1st, 3rd, 4th	* SR- The Happy Prince
	Week 2	7th to 8th	* SR- The Happy Prince (Contd.)
	Week 3	14th to 19th	* MCB- My Childhood
			* Comprehension Passage
	Week 4	21st to 26th	* MCB- Reach for the Top (Part 1)
	Week 5	28th to 31st	* MCB- Reach for the Top (Part 2)
NOVEMBER	Week 2	4th, 6th, 8th, 9th	* SR- The Last Leaf
	Week 3	11th to 14th, 16th	* SR- The Last Leaf (Contd.)
			* Gr- Determiners
	Week 4	18th to 23rd	* Gr- Determiners (Contd.)
			* Revision for PT2
	Week 5	25th to 30th	<i>(PT2 Begins)</i>
			* Discussion of PT2 Marking Scheme
			* ALS
			* Showing of PT2 Copies
DECEMBER	Week 1	2nd to 7th	* MCB- No Men Are Foreign (Poem)

			* Multiple Assessments
	Week 2	9th to 13th	* MCB- On Killing a Tree (Poem)
	Week 3	16th to 21st	* SR- A House is Not a Home
	Week 4	23rd	* Completion of Internal Assessment
	Week 5		<i>Winter Break</i>
JANUARY	Week 1	2nd to 4th	* MCB- Kathmandu
	Week 2	6th to 11th	* MCB- Kathmandu (Contd.)
			* MCB- A Slumber Did My Spirit Seal (Poem)
	Week 3	13th to 14th	* SR- The Beggar
		16th to 18th	* SR- The Beggar (Contd.)
	Week 4	20th to 25th	* SR- If I Were You
	Week 5	27th to 31st	* <i>Completion of Syllabus</i>
FEBRUARY	Week 1	1st	Revision for Annual Exam
	Week 2	6th to 11th	Revision for Annual Exam
	Week 3	10th to 15th	ANNUAL EXAMS
	Week 4	17th to 22nd	ANNUAL EXAMS
	Week 5	24th to 28th	<i>End of Session . . .</i>
MARCH	Week 1		<i>Result Declaration</i>
	Week 2		<i>Beginning of a New Session. . .</i>
** The above syllabus break-up excludes the rationalised content as per CBSE curriculum (2023-2024)			

M.G.M HIGHER SECONDARY SCHOOL , B.S. CITY

SYLLABUS BREAK UP YEAR 2022 – 23

CLASS IX SUBJECT SOCIAL SCIENCE (GEOGRAPHY AND POLITICAL SCIENCE)

MONTH	WEEK	CHAPTER NO	TOPIC
APRIL	2nd	Geo 1	India – Size and location , The World, India's Neighbours,
	3rd	Geo 2	Physical features of India , The Himalayan Mountains The Northern Plains
	4th	Geo 2	The Peninsular Plateau , The Indian Desert ,The Coastal Plain, The Islands
	5th	Pol. Sc 1	What is Democracy ? Why Democracy ? Why Define Democracy ? A simple definition
MAY	1 st and 2nd	Pol. Sc 1	Features of Democracy, Major decisions by elected leaders , Free and Fair Electoral competition One person , one vote, one value, Rule of Law and respect for rights Summary
	3rd		Why Democracy? Arguments against democracy, Arguments for Democracy
	4th	Pol. Sc. 1 Pol. Sc. 2	Broader meanings of Democracy Constitutional Design – Democratic Constitution in South Africa, Struggle against Apartheid,
JUNE	1st	Pol. Sc. 2	Why do we need Constitution?
JUNE	4th	Pol. Sc. 2	Making of the Indian Constitution –The path to Constitution
	5th		The Constituent Assembly , Guiding values of the Indian Constitution
JULY	1st	Pol. Sc. 2	The Dream and the Promise , Philosophy of the Constitution, Institutional Design
	2nd	Geo 3	Drainage – The drainage systems in India
	3rd		The Himalayan Rivers The Peninsular Rivers
	4th		Lakes – Role of rivers in the Economy, River Pollution
	5th	Pol. Sc. 3	Electoral Politics – Why Election ? Why do we need Election?
AUGUST	1st	Pol. Sc. 3	Is it good to have Political Competition constituencies ?
	2nd		Reserved Constituencies, Voter's List, Nomination of Candidates, Election Campaign
	3rd		Polling and counting of votes, Independent Election Commission, popular participation
	4 th and 5th		Acceptance of election outcome, Challenges to free and fair elections
SEPTEMBER	1st	Revision	Geo & Pol. Sc.
	2nd	Revision	Geo & Pol. SC
	3 rd and 4th	EXAM	Half Yearly Examination
			Climate – Introduction, Factors affecting India's climate

OCTOBER	2 nd and 3 rd	Geo 4	
	4 th	GEO 4	The Cold Weather Season, The Hot Weather Season
	5 th		advancing monsoon, retreating monsoon
NOVEMBER	1 st	Geo 4	Distribution of rainfall, Monsoon as a unifying bond
	2 nd	Pol. Sc. 5	Working of Institutions – How is a major policy decision taken ? The need for political institution
	3 rd		Parliament- why do we need a Parliament
	4 th		Political executive and permanent executive Powers of Prime Minister
	5 th		The President, The Judiciary
DECEMBER	1 st	Geo 5	Natural vegetation and Wildlife –Introduction, ecosystem,
	2 nd		Types of vegetation , wildlife
	3 rd	Pol. Sc 6	Democratic Rights – Life without rights, Citizen's Rights in Saudi Arabia, Ethnic Massacre in Kosovo
	4 th		Rights in Democracy? What are Rights ? Why do we need rights in a Democracy ?
JANUARY	2 nd	Pol. Sc. 6	Rights in the Indian Constitution – Right to equality, Right to freedom, Right to freedom of religion, cultural and Educational rights,
	3 rd		How can we secure these rights, Expanding scope of rights
	4 th	Geo 6	Population – Population size and distribution, India's population distribution by density,
	5 th	Geo 6	Population growth
FEBRUARY	1 st	REVISION	REVISION
	2 nd	EXAM	ANNUAL EXAM

M.G.M. HIGHER SECONDARY SCHOOL B.S CITY

Syllabus Break up For the Year 2024-2025

Class IX Subject : Hindi – A

Month	Week	Chapter/Topic
April	1 st	पुस्तक क्षितिज भाग 1 कृतिका भाग 1 व्याकरण सरस्वती हाउस
	2 nd	क्षितिज भाग 1- दो बैलों की कथा
	3 rd	कबीर की साखी व सबद
	4 th	व्याकरण - उपसर्ग व प्रत्यय
	5 th	क्षितिज भाग 1- ल्हासा की ओर
May	1 st	कृतिका.- इस जल प्रलय में
	2 nd	व्याकरण.- समास के भेद व समासिक विग्रह
	3 rd	क्षितिज भाग 1- उपभोक्तावाद की संस्कृति
June	4 th	काव्य.- वाख
	5 th	व्याकरण.- वाक्य अर्थ के आधार पर
	6 th	क्षितिज भाग 1- सौवले सपनों की याद
July	1 st	व्याकरण -. अलंकार अनुप्रास, यमक, श्लेष
	2 nd	क्षितिज भाग 1- प्रेमचंद के फटे जूते
	3 rd	कृतिका 1- मेरे संग की औरतें
	4 th	व्याकरण - अनुच्छेद लेखन 120 शब्दों में पत्र लेखन 100 शब्दों में
August	5 th	लघु कथा लेखन 100 शब्दों में, ई मेल लेखन 100 शब्दों में
	6 th	क्षितिज भाग1- मेरे बचपन क दिन
	7 th	काव्य- रसखान के सवैये , कैदी और कोकिला

September	2 nd	व्याकरण -संवाद लेखन 80 शब्दों में सूचना लेखन शब्दों में
	3 rd	अपठित गद्यांश- काव्यांश
	4 th	प्रश्न उत्तर चर्चा
	5 th	व्याकरण - अपठित काव्यांश अभ्यास कार्य अर्धवार्षिक परीक्षा
	1 st	Half Yearly Exam.
October	4 th	क्षितिज भाग 1- मेरे संग की औरतें
	5 th	काव्य ग्रम श्री
	1 st	कृतिका भाग 1- रीढ़ की हड्डी
	2 nd	क्षितिज भाग 1- मेघ आए
	3 rd	क्षितिज भाग 1- बच्चे काम पर जा रहे हैं
November	4 th	काव्य गोष्ठी आंतरिक मूल्यांकन
	5 th	कविता वाचन
	2 nd	व्याकरण - उपसर्ग -प्रत्यय
	3 rd	समास भेद व समासिक विग्रह
	4 th	वाक्य अर्थ के आधार पर
December	5 th	अलंकार परिभाषा
	1 st	अनुप्रास ,यमक, श्लेष
	2 nd	अनुच्छेद लेखन 120शब्दों में पत्र औपचारिक व अनौपचारिक 100 शब्दों

January	3 rd	लघुकथा लेखन 100 शब्दों में
	1 st	ई मेल लेखन 100 शब्दों में
	2 nd	संवाद लेखन 80 शब्दों में
	3 rd	सूचना लेखन 80 शब्दों में
	4 th	अपठित गद्यांश 250 शब्दों में
	5 th	अपठित काव्यांश 120 शब्दों में
		Revision
		Periodic Test- 1 – जुलाई
		अपठित गद्यांश, दो बैलों की कथा, साखी-सबद ,उपसर्ग-प्रत्यय, इस जल प्रलय में, वाख, वाक्य, अलंकार, सॉवले सपनों की याद ।
		<u>Half Yearly Portion</u> दो बैलों की कथा, साखी-सबद, उपसर्ग-प्रत्यय, लहासा की ओर, इस जल प्रलय में, समास, उपभोक्तावाद की संस्कृति,वाख, वाक्य ,अलंकार ,सॉवले सपनों की याद, मेरे संग की औरतें , अनुच्छेद, पत्र ,लघु कथा, ई मेल, संवाद, सूचना, अपठित गद्यांश व काव्यांश, रसखान के सवैये ।
		Periodic Test- 2- नवंबर
		अपठित काव्यांश, प्रेमचंद के फटे जूते, मेरे संग की औरतें, मेरे बचपन के दिन, सवैये, ग्राम श्री ।
		Portion for Annual Examination 2024-2025
		संपूर्ण पाठ्यक्रम को शामिल किया जाएगा ।
		Complete Syllabus of session 2024-2025

**M.G.M HIGHER SECONDARY SCHOOL, B.S.CITY SYLLABUS BREAK-UP FOR
YEAR 2024-2025 CLASS -9 SUBJECT- SOCIAL SCIENCE
(HISTORY&ECONOMICS)**

MONTH	WEEK	CHAPTER NO.	CHAPTER NAME/ TOPIC
APRIL	1 (3-5)	1-HISTORY	The French Revolution- Overview, French Society during late 18th century, A growing middle class Envisages an end to privileges.
	2 (8-13)		The outbreak of the revolution, France becomes a Constitutional monarchy. France Abolishes Monarchy and becomes Republic
	3 (15-20)		Did women have a revolution? The abolition of slavery, The revolution and everyday life
	4&5 (22-26 &29,30)		Did women have a revolution? The abolition of slavery, The revolution and everyday life
MAY	1 (1-4)	1-ECONOMICS	The Story of village Palampur Overview, Introduction, Organization of Production, Farming in Palampur (Land is fixed)
	2 (6-10)		Farming in Palampur(Land distribution , who will provide labour?)
	3 (13-17)		Farming in Palampur(The capital needed in Farming, Sale of surplus Farm Products) , Towards Civil Non -Farm activities in Palampur.
JUNE	3 (20-22)		People As Resource Introduction, Economic activities by men and women
	(24-29)	2-ECONOMICS	Quality of population, Unemployment
JULY	1 (1-5)	2-HISTORY	Socialism in Europe and The Russian Revolution Age of Social Change, the coming of Socialism in Europe REVISION (PT-1)
	2 (8-12)		The Russian Revolution, Socialism in Russia.
	4 (15-20)		The February Revolution in Petrograd,
	5 (29-31)		What Changed After October? Making a Socialist Society
AUGUST	1 (1-2)		Stalinism and Collectivisation, The Global Influence
	2 (5-9)		Nazism And the Rise of Hitler Story of Helmuth, Birth of Weimar Republic(The Effects of the War)
	3 (12-16)		

	4 (20-24)	3-HISTORY	Birth of Weimar Republic(Political Radicalism and Economic Crises, The Years of Depression)
	5 (27-31)		Hitler's Rise to Power(The Destruction of Democracy, Reconstruction)
SEPTEMBER	1 (2-6)		REVISION
	4 (23-27,30)		The Nazi Worldview (Establishment of the Racial State, The Racial Utopia)
OCTOBER	1 (1-4)	3-ECONOMICS	Youth In Nazi Germany, The Nazi Cult of Motherhood, Ordinary People and crime against humanity.
	2 (7-8) & 3 (14-18)		Poverty As A Challenge: Introduction, Two typical cases of Poverty, Poverty as seen by Social Scientist,
	4 (21-26)		Poverty Line, Poverty Estimate, Vulnerable Group
	5 (28-31)		Interstate Disparities, Global Poverty Scenario,
NOVEMBER	3 (11-16)	3-ECONOMICS	Causes of Poverty, Anti-Poverty measures, The challenges ahead,
	4 (18-22)	4-HISTORY	Forest Society and Colonialism : Introduction , Why Deforestation?
	5 (25-30)		Rise of Commercial Forestry, Rebellions in the Forest
DECEMBER	1 (2-6)		Forest Transformation in Java
	2 (9-13)	4-ECONOMICS	Food Security In India: What is food Security? Who is Food Insecure?
	3 (16-21)		Food Security in India , What is Buffer Stock?
JANUARY	1 (2-4)		What is Public Distribution System? Current Status in Public Distribution System
	2 (6-10)	5-HISTORY	Pastoralists in the Modern World : Pastoral Nomads and their Movements, On the Plateaus, Plains and Deserts
	3 (13-17)		Colonial Rule and Pastoral Life, How did the Pastoralists cope with these changes?
	4 (20-24)		Pastoralism in Africa
	5 (27-31)		When Pasture Dry, Conclusion

PORTION FOR PERIODIC TEST -1

HISTORY – THE FRENCH REVOLUTION

ECONOMICS – THE STORY OF VILLAGE OF PALAMPUR

PORTION FOR HALF -YEARLY

HISTORY - 1. THE FRENCH REVOLUTION

2. SOCIALISM IN EUROPE AND THE RUSSIAN REVOLUTION

ECONOMICS –1. THE STORY OF VILLAGE OF PALAMPUR

2. – PEOPLE AS RESOURCE

PORTION FOR PERIODIC TEST - 2

HISTORY - 1. THE FRENCH REVOLUTION

2. SOCIALISM IN EUROPE AND THE RUSSIAN REVOLUTION

3. NAZISM AND THE RISE OF HITLER

ECONOMICS –1. THE STORY OF VILLAGE OF PALAMPUR

2. – PEOPLE AS RESOURCE

3. POVERTY AS A CHALLENGE

ANNUAL EXAM-

HISTORY

1. THE FRENCH REVOLUTION

2. SOCIALISM IN EUROPE AND THE RUSSIAN REVOLUTION

3. NAZISM AND THE RISE OF HITLER

4. FOREST SOCIETY AND COLONIALISM

5. PASTORALISTS IN THE MODERN WORLD

ECONOMICS

1. THE STORY OF VILLAGE OF PALAMPUR

2. PEOPLE AS RESOURCE

3. POVERTY AS A CHALLENGE

4. FOOD SECURITY IN INDIA

M.G.M HIGHER SECONDARY SCHOOL, B.S.CITY
SYLLABUS OF MARKETING AND SALES SESSION : 2024-2025
CLASS – 9

MONTH	WEEK		UNIT/ SESSION	TOPIC/ TOPIC NAME
APRIL	1 st	3 rd -5 th	Part B 1.Introduction to Marketing and Sales	Session: Definition of Marketing <ul style="list-style-type: none"> ● Meaning of the term marketing ● Concepts associated with marketing management
	2 nd	8 th -12 th	Part B 1.Introduction to Marketing and Sales	Session: Importance of Marketing in Business <ul style="list-style-type: none"> ● How is marketing important in business?
	3 rd	15 th -19 th	Part B 1.Introduction to Marketing and Sales	Session: Sales as a function <ul style="list-style-type: none"> ● Sales as a function
	4 th +5 th	22 nd -30 th	Part B 1.Introduction to Marketing and Sales	Session: Importance of selling function <ul style="list-style-type: none"> ● Understanding how is selling important
MAY	1 st	1 st -3 rd	Part B 2.Concept of Market	Session: Concept of Market <ul style="list-style-type: none"> ● Define the meaning of concept market.
	2 nd	6 th -10 th	Part B 2.Concept of Market	<ul style="list-style-type: none"> ● Understanding the importance of exchange
	3 rd	13 th -17 th	Part B 2.Concept of Market	Session: Concept of Market <ul style="list-style-type: none"> ● Need to segment the market
JUNE	4 th +5 th	20 th -28 th	Part B 2.Concept of Market	Session: Competition <ul style="list-style-type: none"> ● Definition of competition. ● Need for a competition market in a market place
JULY	1 st	1 th -5 th	Part B 2.Concept of Market	Session: Product Market <ul style="list-style-type: none"> ● Definition and meaning of product market ● Understanding the difference in product market and service market.
	2 nd	8-12 th	Part B 2.Concept of Market	Session: Service Market <ul style="list-style-type: none"> ● Definition and meaning of service market. ● Understanding the features of service market.
	3 rd	15 th -19 th	Part A Employability Skill 1.Communication Skills	Verbal and non verbal communication
	4 th	22 nd -26 th	Part B 3.Basic Concept of Sales and Selling	Session: Concept of Selling <ul style="list-style-type: none"> ● Describe the concept of selling ● Characteristics of selling
	5 th	29 th -31 st	Part B 3.Basic Concept of Sales and Selling	Session: Types of Selling <ul style="list-style-type: none"> ● Types of selling used to sell products and services in the market
AUGUST	1 st +2 nd	1 st -9 th	Part B 3.Basic Concept of Sales and Selling	Session: Selling Tasks <ul style="list-style-type: none"> ● Concept of selling tasks ● Types of selling tasks

	3rd	12 th -16th	Part B 3.Basic Concept of Sales and Selling	Session: Intermediaries of selling <ul style="list-style-type: none"> • Concept of intermediaries • Types of selling intermediaries
	4th	20 th -23rd	Part A Employability Skill 1.Communication Skills	<ul style="list-style-type: none"> • Greetings and introduction
	5th	27 th -30th	Part A Employability Skill 2.Self Management Skill	<ul style="list-style-type: none"> • Strength and Weakness Analysis
SEPTEMBER	1 st	2 nd -6th	Part A Employability Skill 3.Information and communication technology skills	<ul style="list-style-type: none"> • Introduction to ICT • Basics of Internet
	2nd	9 th -13th		HALF YEARLY EXAM
	3rd	18 th -21st	4.Understanding Customer and Consumer	Session: Customer and consumer <ul style="list-style-type: none"> • Meaning of customer and consumer
	4 th +5th	23 rd -30th	4.Understanding Customer and Consumer	Session: Customer and consumer Difference between customer and consumer
OCTOBER	1 st +2nd	1 st -8th	4.Understanding Customer and Consumer	Session: Customer and consumer Types of customer
OCTOBER	3rd	14 th + 18th	4.Understanding Customer and Consumer	Session: Need <ul style="list-style-type: none"> • Types of needs
	4th	21 st -25th	4.Understanding Customer and Consumer	Session: Buyer's Behavior <ul style="list-style-type: none"> • Importance of understanding buyer's behavior
	5th	28 th -31st	4.Understanding Customer and Consumer	Session: Buyer's Behavior Factors influencing buyer's behavior
NOVEMBER	2nd+3rd	8 th -14th	Part A Employability Skill 4. Entrepreneurship skills	Session: Entrepreneurship <ul style="list-style-type: none"> • What is entrepreneurship? • Role of entrepreneurship Session: Entrepreneurship <ul style="list-style-type: none"> • Distinguishing characteristics of entrepreneurship and wage employment
	4th	18 th -22nd	5. Activities in Sales and Marketing	Session: Sales Tasks <ul style="list-style-type: none"> • Order getting and order taking processing
	5th	25 th -29th	5. Activities in Sales and Marketing	<ul style="list-style-type: none"> • Order delivery support personnel activities

DECEMBER	1 st	2 nd -6 th	5. Activities in Sales and Marketing	Session: Money Collection and Sales Reporting <ul style="list-style-type: none"> • Money collection in different types of sales i.e <ul style="list-style-type: none"> -Over the counter sales - Business to Business sales - Online sales
	2 nd	9 th -13 th	5. Activities in Sales and Marketing	<ul style="list-style-type: none"> • Sales Report preparation
	3 rd +4 th	16 th -23 rd	5. Activities in Sales and Marketing	Session: Role of Salesman <ul style="list-style-type: none"> • Conceptual understanding of sales professional and his role in marketing
JANUARY	1 st +2 nd	2 nd -10 th	5. Activities in Sales and Marketing	Session: Role of Salesman <ul style="list-style-type: none"> • Conceptual understanding of sales professional and his role in marketing
	3 rd	13 th -17 th	Part A Employability Skill 5. Green skills	Session: Society and Environment <ul style="list-style-type: none"> • Different types of resources
	4 th	20 th -24 th	Part A Employability Skill 5. Green skills	Session: Pollutants <ul style="list-style-type: none"> • Types of pollution
	5 th	27 th -31 st	Part A Employability Skill 5. Green skills	Session: Saving the environment <ul style="list-style-type: none"> • Reduce, Reuse, Recycle
FEBRUARY	1 st + 2 nd	1 st -7 th	Practical Exam	
	3 rd	10 th -14 th	REVISION	
	4 th + 5 th	17 th -28 th	Annual Exam	

MGM HIGHER SECONDARY SCHOOL, B S CITY**SYLLABUS BREAK UP****SESSION - 2024-25****CLASS- IX****SUBJECT – MATHS**

MONTH	WEEK	CHAPTER/TOPIC
APRIL	1 ND (3 rd – 5 th)	Rational numbers as recurring/ terminating decimals. 1. Examples of non-recurring/non-terminating decimals. Irrational Numbers. Real numbers and their decimal expansions
	2 RD (8 th -12 th)	Operations on real numbers .Rationalization (with precise meaning) of real numbers of the type $1/a+b\sqrt{x}$ and $1/\sqrt{x}+\sqrt{y}$
	3 TH (15 th -19 th)	Recall of laws of exponents with integral powers. Rational exponents with positive real bases (to be done by particular cases, allowing learner to arrive at the general law)
	4 th (22 nd -26 th)	Irrational Numbers. Real numbers and their decimal expansions.
	5 TH (29 th -30 th)	1. POLYNOMIALS: Definition of a polynomial in one variable, with examples and counter examples ACTIVITY 1
MAY	1 ST (1 st -3 rd)	Coefficients of a polynomial, terms of a polynomial and zero polynomial. Degree of a polynomial.
	2 ND (6 th -10 th)	Polynomials in one variable, Types of a polynomial, Factors and multiples. Zeroes of a polynomial
	3 rd (13 th -17 th)	Motivate and State the Remainder Theorem with examples. Statement and proof of the Factor Theorem. Factorization of $ax^2 + bx + c$, $a \neq 0$ where a, b and c are real numbers, and of cubic polynomials using the Factor Theorem. Recall of algebraic expressions and identities.
JUNE	4 TH (20 th -22 rd)	Recall of algebraic expressions and identities. Verification of identities. ACTIVITY-2
	5 th (24 th -29 th)	3. COORDINATE GEOMETRY: The Cartesian plane, coordinates of a point, Coordinate plane, notations. names and terms associated with the
JULY	1 ST (1 st -5 th)	4. LINEAR EQUATION IN TWO VARIABLES: Recall of linear equations in one variable. Introduction to the equation in two variables.
	2 ND (8 th -12 th)	. Focus on linear equations of the type $ax+by+c = 0$ Explain that a linear equation in two variables has infinitely many solutions and justify their being written as ordered pairs of real numbers. , plotting them and showing that they lie on a line. REVISION (PT)
	3 RD (15 th -19 th)	plotting them and showing that they lie on a line.
	4 TH (22 nd – 26 th)	Examples: problems from real life with algebraic solutions ACTIVITY 3. INTRODUCTION TO EUCLID’S GEOMETRY: Euclid’s method of formalizing with definition
	5 TH (29 th -31 st)	INTRODUCTION TO EUCLID’S GEOMETRY: Postulates and Theorems. Five postulates of Euclid’s (Axiom) 1. Given two distinct points, there exists one and only one line through them. (Theorem) 2. (Prove) Two distinct lines cannot have more than one point in common.
AUGUST	1 ST (1 st -3 rd)	4. LINES AND ANGLES: Basic terms and definition,1. (Motivate) If a ray stands on a line, then the sum of the two adjacent angles so formed is 180° and the converse. 2. (Prove) If two lines intersect, vertically opposite angles are equal.

	2 ND (4 th -9 th)	3. (Motivate) Results on corresponding angles, alternate angles, interior angles when a transversal intersect two parallel lines 4. (Motivate) Lines which are parallel to a given line are parallel.
	3 RD (12 th - 16 th)	ACTIVITY 4. TRIANGLES 1. (Motivate) Two triangles are congruent if any two sides and the included angle of one triangle is equal to any two sides and the included angle of the other triangle (SAS Congruence). 2. (Motivate) Two triangles are congruent if any two angles and the included side of one triangle is equal to any two angles and the included side of the other triangle (ASA Congruence). 3. (Motivate) Two triangles are congruent if the three sides of one triangle are equal to three sides of the other triangle (SSS Congruence).
	4 TH (20 th -23 rd)	4. (Motivate) Two right triangles are congruent if the hypotenuse and a side of one triangle are equal (respectively) to the hypotenuse and a side of the other triangle. (RHS Congruence)
	5 TH (27 th -30 th)	5. (Prove) The angles opposite to equal sides of a triangle are equal. 6. (Motivate) The sides opposite to equal angles of a triangle are equal 7. (Motivate) The sides opposite to equal angles of a triangle are equal.
SEPTEMBER	1 st (2 nd -6 th)	ACTIVITY 5 REVISION
	2 ND (9 th -14 th)	TERM-1 HALF-YEARLY EXAMINATION
	3 RD (18 th -20 th)	HALF-YEARLY EXAMINATION
	4 TH (23 rd -27 th)	UNIT-GEOMETRY 2. QUADRILATERALS. Properties of a parallelogram. 1. (Prove) The diagonal divides a parallelogram into two congruent triangles. 2. (Motivate) In a parallelogram opposite sides are equal, and conversely.
	5 TH 30 th	3. (Motivate) In a parallelogram, the diagonals bisect each other and conversely
OCTOBER	1 st (1 st , 4-5 th)	4. A quadrilateral is a parallelogram if a pair of its opposite sides is parallel and equal. 5. In a parallelogram, the diagonal bisect each other and conversely. 6. (Motivate) In a triangle, the line segment joining the mid points of any two sides is parallel to the third side and in half of it and (motivate) its converse.
	2 nd (7 th -8 th)	ACTIVITY-6
	3 RD 14 th -18 th	3. CIRCLES 1. (Prove) Equal chords of a circle subtend equal angles at the Centre and (motivate) its converse. 2. (Motivate) The perpendicular from the Centre of a circle to a chord bisects the chord and conversely, the line drawn through the Centre of a circle to bisect a chord is perpendicular to the chord
	4 TH (21 st -25 th)	3. (Motivate) Equal chords of a circle (or of congruent circles) are equidistant from the Centre (or their respective centers) and conversely. 4. (Motivate) The angle subtended by an arc at the Centre is double the angle subtended by it at any point on the remaining part of the circle. ACTIVITY-7
	5 TH (28 th -31 st)	5. (Motivate) Angles in the same segment of a circle are equal.

NOVEMBER	2 ND (6, 8 th - 9 th)	6.(Motivate) The sum of either of the pair of the opposite angles of a cyclic quadrilateral is 180° and its converse
	3 RD (11 th -14 ^h)	ACTIVITY 9 UNIT-MENSURATION 6. HERON'S FORMULA Area of a triangle using Heron's formula (without proof)
	4 TH (18 th -22 th)	REVISION (PT-2)
	5 TH (25 th -29 th)	AREAS AND VOLUMES: Surface areas of CONE
DECEMBER	1 ST (2 nd -6 th)	AREAS AND VOLUMES: Volume of CONE
	2 ND (9 th -13 th)	Surface area of sphere and hemi-sphere.
	3 RD (16 th -20 th)	volume of cones
	4 TH 18th-22nd	Volume of sphere and hemi-sphere.
JANUARY	1 st 2 nd -3 th	Statistics BAR –GRAPH
	2 ND (6 th -10 th)	Histograms (with Equal and varying base length)
	3 RD (13th-17th)	Frequency polygons
	4 TH (20 th -24 th)	REVISION
	5 th (27 th -31 st)	REVISION

PORTIONS:

FIRST PERIODIC TEST :

CH1. NUMBER SYSTEM

CH2.POLYNOMIAL

CH3. COORDINATE GEOMETRY

HALF YEARLY PORTION

CH1. NUMBER SYSTEM

CH2.POLYNOMIAL

CH3. COORDINATE GEOMETRY

CH4. LINEAR EQUATION IN TWO VARIABLES

CH5. INTRODUCTION TO EUCLID'S GEOMETRY

CH6. . LINES AND ANGLES

CH7. TRIANGLES

PERIODIC TEST-2:

CH1. NUMBER SYSTEM

CH2.POLYNOMIAL

CH3. COORDINATE GEOMETRY

CH4. LINEAR EQUATION IN TWO VARIABLES
CH5. INTRODUCTION TO EUCLID'S GEOMETRY
CH6. . LINES AND ANGLES
CH7. TRIANGLES
CH8. QUADRILATERALS
CH9. CIRCLES

ANNUAL EXAM 2024: WHOLE PORTION
LIST OF ACTIVITIES:

ACTIVITY 1. To construct a square-root spiral.

ACTIVITY 2. To verify the algebraic identity: $(a+b)^2 = a^2 + 2ab + b^2$

ACTIVITY 3. To find a hidden picture by plotting and joining the various points with given coordinates in a plane.

ACTIVITY 4. To verify experimentally that if two lines intersect, then

(i) The vertically opposite angles are equal

(ii) The sum of two adjacent angles is 180°

ACTIVITY 5. To verify experimentally that the sum of the angles of a quadrilateral is 360°

ACTIVITY 6. To verify that the angle subtended by an arc of a circle at the Centre is double the angle subtended by it at any point on the remaining part of the circle.

ACTIVITY 7. To verify that the opposite angles of a cyclic quadrilateral are supplementary.

ACTIVITY 8. To find the formula for the CSA and TSA of a right circular cone.

ACTIVITY 9. To draw the histograms for classes of equal and varying widths.



M.G.M. HIGHER SECONDARY SCHOOL, B.S.CITY

SYLLABUS BREAK-UP

SESSION : 2024 - 2025

CLASS - IX

SUBJECT : MULTI SKILL FOUNDATION COURSE (416)

MONTH	Week	Chapter Number, Name & Topic
APRIL	2 nd	<u>Unit 1: Workshop and Engineering Techniques</u> # Introduction and safe practice of tools in engineering workshop
	3 rd	# Measurement- Measuring various physical quantities
	4 th	# Carpentry
	5 th	# Soldering and Fabrication (Making jobs from metal sheet)
MAY	1 st & 2 nd	# Drilling, Tapping and threading # Welding <u>Employability skills</u> # Communication skills-I
	3 rd & 4 th	# Study of construction material # Piping and plumbing (simple pipeline work) # Flow chart
JULY	1 st & 2 nd	<u>Unit 2: Energy and Environment</u> # Introduction to Electric appliance, Tools and Symbols
	3 rd	# Types of wire, cable and switches
	4 th	# Joints of Electrical Conductor wires
	5 th	# Simple wiring # Types of wiring – Staircase wiring, Godown Wiring # Earthing # Types and function of fuse
	1 st & 2 nd	# Miniature circuit breaker (MCB)
August	3 rd	# Soldering
	4 th & 5 th	# Maintenance of lead acid battery # Maintenance and application of various types of stoves # Types of Light # Generate electricity bill and measures to save electricity. # Soak pit / Septic tank – purpose and operating system
	1 st	# Waste management and regeneration # Drawing a flow chart <u>Employability skills</u> # Self-Management Skills-I
SEPTEMBER	2 nd	<u>Unit 3: Introduction to basics of gardening, nursery and agriculture</u> # Machines and equipment's for agriculture
	3 rd	# land cultivation, crop plantation, fertilizer application, mulching
		Revision and practical

	4 th 5 th	Half yearly Examination # seed plantation and seed treatment
OCTOBER	1 st & 2 nd 3 rd & 4 th	# prepare vermi compost and vermiwash, advantages of vermi compost and vermiwash # prepare organic pesticide, advantages of organic pesticide # Methods of determining the weight and age of animals # Type of the animal feed, determine the expenditure of consumed feed from the weight of an animal
NOVEMBER	1 st & 2 nd 3 rd 4 th 5 th	# domesticated animals, diseases & care (cow, buffalo, goat) # Innovative gardening (urban school) # Drawing a flow chart. <u>Employability skills</u> # ICT skills-I <u>UNIT 4: FOOD PROCESSING TECHNIQUES</u> # Utensils and equipment used in cooking # Characteristics of raw food material - identification(cereals, pulses and dals, species and condiments) # Food processing methods (boiling, steaming, shallow frying, baking, sautéing) and fuel conservation methods
DECEMBER	1 st 2 nd 3 rd , 4 th & 5 th	# food preservation methods (drying, pickling, brining- putting in syrup, freezing, canning) # costing, packing and labelling of food Products <u>Employability skills</u> # Entrepreneurial skills-I # Food and nutrition requirements of adolescent boys and girls # Methods of identifying food adulteration # Flow chart
JANUARY	1 st 2 nd 3 rd 4 th & 5 th	<u>Employability skills</u> # Green skills-I Practical File / Student Portfolio Viva Voce Revision / Practical
FEBRUARY	1 st 2 nd 3 rd	# Revision for Annual Exam # Revision for Annual Exam # Annual Exam

**PORTION OF EXAM WITH MARKS WEIGHTAGE FOR
YEAR 2024-2025**

EXAM		CHAPTER NO.	NAME OF CHAPTER	MARKS WEIGHTAGE
HALF-YEARLY	PART - A	UNIT - 1	COMMUNICATION SKILLS - I	4
		UNIT – 2	SELF MANAGEMENT SKILLS – I	4
		UNIT – 3	INFORMATION & COMMUNICATION SKILLS – I	2
			TOTAL	10
	PART –B	UNIT – 1	<u>WORKSHOP AND ENGINEERING TECHNIQUES</u>	20
		UNIT – 2	<u>ENERGY AND ENVIRONMENT</u>	20
			TOTAL	40
ANNUAL	PART - A	UNIT - 1	COMMUNICATION SKILLS - I	2
		UNIT – 2	SELF MANAGEMENT SKILLS – I	2
		UNIT – 3	INFORMATION & COMMUNICATION SKILLS – I	1
		UNIT – 4	ENTREPRENEURIAL SKILLS – I	4
		UNIT – 5	GREEN SKILLS – I	1
			TOTAL	10
	PART - B	UNIT – 1	<u>WORKSHOP AND ENGINEERING TECHNIQUES</u>	07
		UNIT – 2	<u>ENERGY AND ENVIRONMENT</u>	06
		UNIT – 3	<u>GARDENING, NURSERY AND AGRICULTURE TECHNIQUES</u>	14
		UNIT – 4	<u>FOOD PROCESSING TECHNIQUES</u>	13
			TOTAL	40
			TOTAL	50
	PART - C	PRACTICAL WORK	<u>PRACTICAL EXAMINATION</u>	15
			<u>PROJECT</u>	15
			<u>VIVA VOCE</u>	10
			TOTAL	40
	PART - D	STUDENT PORTFOLIO	PRACTICAL FILE / STUDENT PORTFOLIO	10
			TOTAL	50

MGM HIGHER SECONDARY SCHOOL, B S CITY
YEAR PLAN WITH MONTHLY PLAN 2024-25
CLASS – IX
SUBJECT- PHYACTIVITY TRAINER (418)

MONTH	PERIODS	TOPIC/TOPIC NAME
APRIL	6pds	Unit.-1. Role of physical education and child development. 1.1. Physical and emotional needs of the children. 1.2. Factors influencing physical activities. 1.3. Plan physical activities. 1.4. Conduct physical activities
MAY		Employability skills Unit-1. Communication skills -II
AND	8pds	TEXT BOOK UNIT- 2 . Planning is appropriate physical activities. 2.1. activities for increasing physical strength and coordination. 2.2. plan physical activities for developing cognitive skills. 2.3. Manage class.
JUNE		
JULY	5pds	
AND		Employability skills UNIT -2. Self management skills- II
AUGUST		Text Book UNIT-3. Organising age appropriate physical activities. 3.1. Games for everyday activities . 3.2. Activities to develop strength and balance
SEPTEMBER	5pds	Half yearly exam portion Text book- unit 1 and unit 2 Employability skills – unit 1 and unit 2
OCTOBER	5pds	3.3. Activities to develop cognitive skills. 3.4. activities to develop endurance and flexibility
		Employability skills Unit -3. Information and communication technology skill -II
NOVEMBER	6 pds	Text book
		UNIT-4. CHILDREN HEALTH AND SAFETY. 4.1. child health care and habits. 4.2. various aspects of safety management and emergency response.
DECEMBER		Employability skills UNIT-4 .. Green skills -II
JANUARY		UNIT-5 Entrepreneur Revision
FEBRUARY		<u>Annual Exam</u>

MGM HIGHER SECONDARY SCHOOL BOKARO
YEAR PLAN WITH MONTHLY PLAN 2024-2025

CLASS – 9

Standard-IX

Subject-Physics

Month	Week	Chapter no. and name	Topics
April	I week	Chapter-8. Motion	Describing motion, Distance and displacement, velocity; uniform and non-uniform motion along a straight line; acceleration
	II week		
	III week		distance-time and velocity-time graphs for uniform motion and uniformly accelerated motion
	IV and V week		Equations of motion, Numericals
May	I week and II week	Chapter-9. Force and laws of motion	elementary idea of uniform circular motion Numericals
	III week		Balanced and unbalanced forces, Force and Motion, Newton's Laws of Motion, (First law of motion), Inertia of a body, Inertia and mass
June	IV week and V week		Momentum, Newton's second law of motion, Mathematical formulation of second law of motion; Force and acceleration
			Numericals based on second law of motion
July	I week	Chapter 10. Gravitation	Action and reaction forces, (Third law of motion)
	II week		Revision
	III week		P.T-1
	IV and V week		Gravitation; Universal law of gravitation Kepler's law, Inverse square law
August	I and II week	Chapter 10- Flotation	Free fall, Force of Gravitation of the earth (gravity), Acceleration due to Gravity; Numericals based on equations of motion under gravitational force
	III week		
	IV week		Mass and weight, weight of objects on the moon, Numericals based on weight of object on earth and moon
	V week		Thrust and Pressure, Pressure in fluids, Numericals.
September	I week		Revision
	II week		Half Yearly exam
	III week		Density, Buoyancy,
	IV week		Archimedes Principle, Experiment-I&2

October	I and II week III week IV and V week	Chapter-11 Work, Energy and Power	Work done by a Force, Energy, Kinetic energy, Potential energy, Numericals based on it. Law of conservation of energy. Rate of doing work(excluding commercial unit of Energy), Revision
November	II week III week IV week V week	Chapter-12 Sound	Nature of sound and its propagation in various media , speed of sound Reflection of sound, uses of multiple reflection of sound Echo, Reverberation, P.T-2
December	I week II week III week I and II week III week IV week V week		Range of hearing, application of ultrasound Experiment-III and IV Revision Revision Revision Revision Revision
January			
February	I week and II week III week IV and		Revision Annual Exam

PORTION OF EXAM(2024-25)

STANDARD: IX

SUBJECT:PHYSICS

Exam	Chapter No.	Chapter Name
Periodic-I	Chapter-8 Chapter-9	Motion Force and laws of motion(upto Newton's second law)
Half Yearly	Chapter-8 Chapter-9 Chapter-10	Motion Force and laws of motion Gravitation(upto Pressure)
Periodic-II	Chapter-8 Chapter-9 Chapter-10 Chapter-11	Motion Force and laws of motion Gravitation Work, Energy and Power
Annual Exam	Chapter-8 Chapter-9 Chapter-10 Chapter-11 Chapter-12	Motion Force and laws of motion Gravitation Work, energy and power Sound

MGM HIGHER SECONDARY
SCHOOL, B S CITY
SYLLABUS BREAK UP
SESSION - 2024-25
CLASS – IX : SANSKRIT

Exam	Chapter no	Name of chapter	Marks Weightage
Periodic test 1	मणिका भाग –1 पाठ 1 पाठ 2 व्याकरणम् —अव्ययाः उच्चारण स्थानानि सन्धिः अपठित अवबोधनम् रचनात्मक –लेखनम्	अविवेकः परमापदां पदम् पाथेयम् अव्ययाः उच्चारणस्थानानि स्वर – दीर्घः , गुणः , वृद्धिः , यण् , अयादि व्यंजन – जश्त्व , म् स्थाने अनुस्वारः विसर्ग – उत्त्व , शत्वम् , षत्वम् , सत्वम् अपठित गद्यांशम् संवादपूर्तिः / कथापूर्तिः चित्र–लेखनम् / अनुच्छेद–लेखनम्	22 12 6 10
Periodic test 2	मणिका भाग –1 पाठ 6 पाठ 7 व्याकरणम् –प्रत्ययाः कारक – उपपद विभक्तयः शब्दरूपाणि अपठित अवबोधनम् रचनात्मक–लेखनम्	तत् त्वम् असि तरवे नमोऽस्तु प्रत्ययाः – क्त्वा , ल्यप् , तुमुन् , शतृ द्वितीया – समया , प्रति , निकषा , विना , परितः , उभयतः , तृतीया – अलम् , विना , हीनः , सह , समम् , सार्धम् , चतुर्थी – कुप् , रुच् , नमः , दा , अलम्(सामर्थ्ये) पंचमी – विना , बहिः , भी , रक्ष् षष्ठी – अधः , उपरि , पुरतः , पृष्ठतः , वामतः , दक्षिणतः सप्तमी – निपुणः , स्निह् , विश्वस् , कुशल अकारान्ताः पु० , इकारान्ताः पु० , उकारान्ताः पु० , हलन्तः – भवत् आकारान्ताः स्त्री० , ईकारान्ताः स्त्री० , नपुंसकलिंग अपठित गद्यांशम् पत्र–लेखनम् चित्र–लेखनम् / अनुच्छेद–लेखनम्	22 12 6 10
Half yearly	मणिका भाग –1 पाठ 1 पाठ 2 पाठ 3 पाठ 4 पाठ 5 अपठित अवबोधनम् रचनात्मक–लेखनम् व्याकरणम् उच्चारणस्थानानि सन्धिः	अविवेकः परमापदां पदम् पाथेयम् विजयताम् स्वदेशः विद्यया भान्ति सदगुणाः कर्मणा याति संसिद्धिम् अपठित गद्यांशम् पत्र–लेखनम् चित्र–लेखनम् / अनुच्छेद –लेखनम् संवादपूर्तिः / कथापूर्तिः	30 10 15 25

	कारक — उपपद विभक्तयः शब्दरूपाणि संख्याः परस्मैपदिनः धातुरूपाणि प्रत्ययाः अव्ययः	उच्चारणस्थानानि , स्वर — दीर्घः , गुणः , वृद्धिः , यण् , अयादि व्यंजन — जश्च सन्धिः , म् स्थाने अनुस्वार विसर्ग — उत्त्व , शत्वम् , षत्वम् , सत्वम् उपपद विभक्तिः द्वितीया — समया , प्रति , निकषा , विना , परितः , उभयतः , तृतीया — अलम् , विना , हीनः , सह , समम् , सार्धम् , चतुर्थी — कुप् , रुच् , नमः , दा , अलम्(सामर्थ्ये) पंचमी — विना , बहिः , भी , रक्ष् षष्ठी — अधः , उपरि , पुरतः , पृष्ठतः , वामतः , दक्षिणतः सप्तमी — निपुणः , स्निह् , विश्वस् , कुशल अकारान्ताः पु० — बालकवत् इकारान्ताः पु० — कविवत् , उकारान्ताः पु० — साधुवत् हलन्तः — भवत् आकारान्ताः स्त्री० — लतावत् , ईकारान्ताः स्त्री० — नदीवत् , नपुंसकलिंग — फलवत् सर्वनाम् शब्दरूप — अस्मद् , युष्मद् , तत् , किम् (त्रिषु लिंगेषु) संख्याः —1—100 (1— 4 केवलं प्रथमा विभक्तौ) कृ , गम् , भू , नी , अस् , ज्ञा , नम् , क्षाल् , प्रच्छ् (लट् , लोट् , लृट् , लङ् , विधिलिङ् लकार) सेव् , लभ् , रुच् (लट् , लृट् लकारयोः) क्त्वा , ल्यप् , तुमुन् , शतृ , स्थानबोधकानि — अत्र , तत्र , अन्यत्र , सर्वत्र , यत्र , एकत्र , उभयत्र कालबोधकानि — यदा , तदा , सर्वदा , एकदा , पुरा , अधुना , अद्य , श्वः , ह्यः प्रश्नबोधकानि — किम् , कुत्र , कति , कदा, कुतः , कथम् , किमर्थम् अन्यानि — च , अपि , यदि , तर्हि , यथा, तथा , सम्यक् , एव	
Annual	मणिका भाग —1 पाठ 1 पाठ 2 पाठ 3 पाठ 4 पाठ 5 पाठ 6 पाठ 7 पाठ 8 पाठ 9 पाठ 10 पाठ 11 अपठित अवबोधनम् रचनात्मक—लेखनम्	अविवेकः परमापदां पदम् पाथेयम् विजयताम् स्वदेशः विद्यया भान्ति सद्गुणाः कर्मणा याति संसिद्धिम् तत् त्वम् असि तरवे नमोऽस्तु न धर्मवृद्धेषु वयः समीक्ष्यते कवयामि वयामि यामि भारतीयं विज्ञानम् (केवलं आन्तरिक मूल्यांकनाय) भारतेनास्ति मे जीवनं जीवनम् (केवलं आन्तरिक मूल्यांकनाय) अपठित गद्यांशम्	

	<p>व्याकरणम् – उच्चारणस्थानानि सन्धिः</p> <p>कारक – उपपद विभक्तयः</p> <p>शब्दरूपाणि</p> <p>संख्याः</p> <p>धातुरूपाणि</p> <p>प्रत्ययाः अव्ययाः</p>	<p>पत्र-लेखनम् चित्र-लेखनम् / अनुच्छेद –लेखनम् संवादपूर्तिः/ कथापूर्तिः उच्चारणस्थानानि स्वर – दीर्घ , गुण , वृद्धि , यण् , अयादि व्यंजन – जशत्व सन्धिः , म् स्थाने अनुस्वारः विसर्ग – उत्त्व , शत्वम् , षत्वम् , सत्वम् उपपद विभक्तिः द्वितीया – समया , प्रति , निकषा , विना , परितः , उभयतः , तृतीया – अलम् , विना , हीनः , सह , समम् , सार्धम् , चतुर्थी – कुप् , रुच् , नमः , दा , अलम्(सामर्थ्ये) पंचमी – विना , बहिः , भी , रक्ष् षष्ठी – अधः , उपरि , पुरतः , पृष्ठतः , वामतः , दक्षिणतः सप्तमी – निपुणः , स्निह् , विश्वस् , कुशल शब्दरूपाणि अकारान्ताः पु० – बालकवत् इकारान्ताः पु० – कविवत् उकारान्ताः पु० – साधुवत् हलन्तः – भवत् आकारान्ताः स्त्री० – लतावत् , ईकारान्ताः स्त्री० – नदीवत् , नपुंसकलिंग – फलवत् सर्वनाम् शब्दरूप – अस्मद् , युष्मद् , तत् , किम् (त्रिषु लिङ्गेषु) संख्याः – 1-100 (1- 4 केवलं प्रथमा विभक्तौ) परस्मैपदिनः – कृ , गम् , भू , नी , अस् , ज्ञा , नम् , क्षाल् , प्रच्छ् (लट् , लोट् , लृट् , लङ् , विधिलिङ् लकार) आत्मनेपदिनः – सेव् , लभ् , रुच् (लट् , लृट् लकारयोः) क्त्वा , ल्यप् , तुमुन् , शतृ स्थानबोधकानि – अत्र , तत्र , अन्यत्र , सर्वत्र , यत्र , एकत्र , उभयत्र कालबोधकानि – यदा , तदा , सर्वदा , अद्य एकदा , पुरा , अधुना , श्वः , ह्यः प्रश्नबोधकानि – किम् , कुत्र , कति , कदा , कुतः , कथम् , किमर्थम् अन्यानि – च , अपि , यदि , तर्हि , यथा , तथा , सम्यक् , एव</p>	
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