



M.G.M. HIGHER SECONDARY SCHOOL, B.S.CITY
SYLLABUS BREAK-UP FOR THE YEAR : 2021 - 2022

CLASS - IX

SUBJECT : INFORMATION TECHNOLOGY (I.T) (CODE – 402)

MONTH	WEEK	CHAPTER NO.	CHAPTER NAME/TOPIC NAME
APRIL	2 nd	UNIT-1 (Part – B)	<u>INTRODUCTION TO IT – ITES INDUSTRY</u> Application of IT – Communication, News & Broadcasting, Social Networking, Education, Banking, Research, Defense, Business, Engineering & Medical Science.
	3 rd	UNIT-1 (Part – B)	BPO, Types of BPO Services, Business Process Management – Structure of IT – BPM Industry.
	4 th	UNIT-1 (Part – A)	<u>COMMUNICATION SKILLS</u> Methods of Communication – Verbal, Non-Verbal & Visual Communication.
	5 th	UNIT-2 (Part – B)	<u>DATA ENTRY & KEYBOARDING SKILLS</u> Types of Keys on Keyboard, Positioning of fingers on the keyboard, Numeric keypad, Home keys, Guide keys.
MAY	2 nd	UNIT-2 (Part – B)	Pointing Device – Mouse, Mouse Operations, Introduction to Rapid Typing Tutor, Touch Typing Technique.
	3 rd	UNIT-1 (Part – A)	<u>COMMUNICATION SKILLS</u> Meaning, Importance & Elements of communication Cycle, Perspectives in Communication.
	4 th	UNIT-2 (Part – B)	User interface of Typing Tutor, Typing text and interpret results, Working with lesson editor, Calculating typing speed, Typing rhythm.
	5 th	UNIT-1 (Part – A)	<u>COMMUNICATION SKILLS</u> Factors affecting perspective in communication, Basic writing skills.
JUNE	4 th	UNIT-3 (Part – B)	<u>DIGITAL DOCUMENTATION</u> Introduction to word processing, Word processing applications, Introduction to Word Processing tool, Creating a document.
	5 th	UNIT-3 (Part – B)	Text editing – Undo and Redo, Moving and copying text, Copy and Paste, Selecting text, Selection criteria,
JULY	1 st	UNIT-2 (Part – A)	<u>SELF MANAGEMENT SKILLS – I</u> Meaning, Positive results of Self – management, Self-management Skills.
	2 nd	UNIT-2 (Part – A)	Self-Confidence – Factors & Tips that help in building Self-Confidence.
	3 rd	UNIT-3 (Part – B)	Page style dialog, Formatting text, Changing text case, Superscript and Subscript, Formatting paragraph – Indenting paragraphs, Aligning paragraphs, Font Color.
	4 th	UNIT-3 (Part – B)	Using bullets and numbering, Inserting page break, Creating header/footer and page numbers, Defining borders and backgrounds, Inserting images shapes, Special characters in a document.
	5 th	UNIT-3 (Part – A)	<u>INFORMATION & COMMUNICATION SKILLS – I</u> Introduction to ICT, Role & Importance of ICT, ICT in daily life, ICT Tools.

AUGUST	1 st	UNIT-3 (Part – B)	Creating table in Word Processor, Inserting row and column in a table, Deleting rows and columns, Splitting and merging tables, Deleting a table, Copying a table, Moving a table.
	2 nd	UNIT-3 (Part – A)	Components of Computer System, Hardware & Software, Primary & Secondary Memory, Input & Output Devices.
	3 rd	UNIT-3 (Part – A)	Operating System, Types of OS, Files & Folders, Keyboard & Mouse Operations.
	4 th	UNIT-3 (Part – B)	Concept of mail merge in word processing, Creating a main document, Creating the data source, Entering data in the fields.
	5 th	UNIT-3 (Part – B)	Merging the data source with main document, Editing individual document, Printing the merged letter, Saving the merged letter.
SEPTEMBER	1 st	UNIT-3 (Part – A)	Introduction to Internet, Application of Internet, Web pages & websites, E-mail applications, Introduction to Social Media.
	2 nd		REVISION FOR HALF YEARLY EXAM
	3 rd & 4 th		HALF YEARLY EXAM
	5 th	UNIT-4 (Part – B)	<u>ELECTRONIC SPREADSHEET</u> Introduction to spreadsheet application, Parts of a spreadsheet, Worksheet – Rows and columns.
OCTOBER	2 nd	UNIT-4 (Part – B)	Cell and cell address, Range of cell – column range, row range, row and column range.
	3 rd	UNIT-4 (Part – B)	Different types of data, Entering data – Label, Values, Formula, Mathematical operators used in formulae.
	4 th	UNIT-4 (Part – A)	<u>ENTREPRENEURIAL SKILLS – I</u> Types of Businesses – Service, manufacturing, hybrid. Types of businesses found in our community.
	5 th	UNIT-4 (Part – B)	Simple calculations using values and operators, Formulae with cell addresses and operators.
NOVEMBER	1 st	UNIT-4 (Part – B)	Formatting tool, Use of dialog boxes to format values, Formatting a range of cells.
	2 nd	UNIT-4 (Part – A)	Entrepreneurship – Meaning, Characteristics, Role & Rewards.
	3 rd	UNIT-4 (Part – B)	Formatting alignment of a cell range, Uses of fill handle to copy formulae.
	4 th	UNIT-4 (Part – B)	Concept of referencing, Relative referencing, Mixed referencing, Absolute referencing.
	5 th	UNIT-4 (Part – B)	Importance of chart in spreadsheet, Types of chart, Example of chart.
DECEMBER	1 st	UNIT-5 (Part – B)	<u>DIGITAL PRESENTATION</u> Concept of presentation, Elements of presentation, Characteristics of an effective presentation.
	2 nd	UNIT-5 (Part – B)	Creating a presentation using template, Selecting slide layout, Saving a presentation, Running a slide show, Save a presentation in PDF, Closing a presentation.
	3 rd	UNIT-5 (Part – A)	<u>GREEN SKILLS – I</u> Environment, Relationship between Society & environment, Ecosystem, Natural resource Conservation & Environment Protection.
	4 th	UNIT-5 (Part – B)	Inserting new slides, Slide layout, Copying and moving slides, Deleting and renaming slides in presentation, Copying, moving and deleting contents of slide, View a presentation,
	1 st	UNIT-5 (Part – B)	Formatting toolbar, Various formatting features, Text alignment, Bullets and numbering. Custom Animation.

JANUARY	2 nd	UNIT-5 (Part – B)	Inserting tables in presentation, Entering and editing data in a table, Selecting a cell, row, column, table, Adjusting column width and row height, Table borders and background.
	3 rd	UNIT-5 (Part – A)	Green Economy – Definition & Importance, Green Skill Development Programme in India.
	4 th	UNIT-5 (Part – B)	Inserting an image, Formatting images, Moving images, Resizing images, Rotating images, Drawing graphic objects – line, shapes, Grouping and un-grouping objects.

PORTION OF EXAM WITH MARKS WEIGHTAGE FOR YEAR 2021-2022

EXAM		CHAPTER NO.	NAME OF CHAPTER	MARKS WEIGHTAGE
HALF YEARLY	PART - A	UNIT - 1	COMMUNICATION SKILLS	4
		UNIT – 2	SELF MANAGEMENT SKILLS – I	2
		UNIT – 3	INFORMATION & COMMUNICATION SKILLS – I	4
				10
	PART - B	UNIT – 1	INTRODUCTION TO IT – ITES INDUSTRY	8
		UNIT – 2	DATA ENTRY & KEYBOARDING SKILLS	12
		UNIT – 3	DIGITAL DOCUMENTATION	20
				40
			Total	50
ANNUAL EXAM	PART - A	UNIT – 1	COMMUNICATION SKILLS	2
		UNIT – 2	SELF MANAGEMENT SKILLS – I	2
		UNIT – 3	INFORMATION & COMMUNICATION SKILLS – I	2
		UNIT – 4	ENTREPRENEURIAL SKILLS – I	2
		UNIT – 5	GREEN SKILLS – I	2
			10	
	PART - B	UNIT – 1	INTRODUCTION TO IT – ITES INDUSTRY	4
		UNIT – 2	DATA ENTRY & KEYBOARDING SKILLS	6
		UNIT – 3	DIGITAL DOCUMENTATION	10
		UNIT – 4	ELECTRONIC SPREADSHEET	10
		UNIT – 5	DIGITAL PRESENTATION	10
		40		
		Total	50	



**M.G.M. HIGHER SECONDARY SCHOOL, B.S.CITY
SYLLABUS BREAK-UP FOR THE YEAR : 2021 - 2022**

CLASS - IX

SUBJECT : SOCIAL SCIENCE (HISTORY/ECONOMICS)

MONTH	WEEK	CHAPTER NUMBER AND NAME	<u>TOPICS TO BE COVERED</u>
APRIL	2 nd	History- Chapter-1 The French Revolution	Overview, Introduction , Organization of Production
	3 rd	History- Chapter-1	Farming in Palampur
	4 th	History- Chapter-1	Non -Farm activities in Palampur
	5 th	History- Chapter-1	Overview, French Society during late 18 th century, The struggle to survive.
MAY	1 ST	History- Chapter-1	A growing middle class Envisages an end to privileges.
	2 nd	Economics - Chapter - 1 The story of village Palampur	The outbreak of the revolution, France becomes a Constitutional monarchy.
	3 rd	Economics- Chapter- 1	France Abolishes Monarchy and becomes Republic
	4 th	Economics- Chapter- 1	Did women have a revolution?, The abolition of slavery, The revolution and everyday life
	5 th	EconomicsI-2- People As Resource	Introduction, Economic activities by men and women
JUNE	4 th	EconomicsI-2	Quality of population
	5 th	EconomicsI-2	Unemployment
JULY	1 st	REVISION	REVISION FOR FIRST PERIODIC TEST
	2 nd	History-L2	Socialism In Europe And The Russian Revolution: The age of social change,
	3 rd	History:- L-2	The coming of socialism in Europe
	4 th	History:L-2	The Russian Revolution, Socialism in Russia,
	5 th	History:- L-2	The February Revolution in Petrograd
AUGUST	1 st	History-L2	The February Revolution in Petrograd, What Changed After October?
	2 nd	History:- L-2	Making a Socialist Society
	3 rd	History:- L-2	Stalinism and Collectivisation
	4 th	History:- L-2	The Global Influence
	5 th	REVISION	REVISION FOR HALF YEARLY EXAM
SEPTEMBER	1 st	REVISION	REVISION FOR HALF YEARLY EXAM
	2 nd	Exam	Half Yearly Examination
	3 rd	Exam	Half Yearly Examination
	4 th	History -L-3	Nazism And The Rise of Hitler: Story of Helmuth, Birth of Weimar Republic
	5 th	History:- L-3	Birth of Weimar Republic
OCTOBER	2 nd	History L-3	Hitler's Rise to Power
	4 th	History L-3	The Nazi Worldview
	5 th	History:- L-3	Youth In Nazi Germany, Ordinary people and crime against humanity

NOVEMBER	1 st	Economics-L-3	Poverty As A Challenge: Introduction, Two typical cases of Poverty, Poverty as seen by Social Scientist
	2 nd	Economics:-L-3	Poverty Line, Poverty Estimate, Vulnerable Group
	3 rd	Economics:-L-3	Interstate Disparities, Global Poverty Scenario, Causes of Poverty
	4 th	REVISION	REVISION FOR SECOND PERIODIC TEST
	5 th	Economics:-L-3	Anti-Poverty measures, The challenges ahead
DECEMBER	1 st	History:-L-4	Forest Society And Colonialism: Introduction, Why Deforestation?
	2 nd	History:-L-4	Rise of Commercial Forestry
	3 rd	History:- L-4	Rebellions in the Forest
	4 th	History:- L-4	Forest Transformation in Java
JANUARY	2 nd	Economics:- L-4	Food Security In India: What is food Security? Who is Food Insecure?
	3 rd	Economics:- L-4	Food Security in India, What is Buffer Stock?
	4 th	Economics:- L-4	What is Public Distribution System? Current Status in Public Distribution System
	5 th	Economics:- L-4	Current Status in Public distribution System.
EBRUARY	1 st	REVISION	REVISION
	2 nd		REVISION
	3 rd		REVISION

PORTION OF EXAM WITH MARK WEIGHTAGE FOR YEAR 2021-22

EXAM	CHAPTER NO.	NAME OF CHAPTER	MARKS WEIGHTAGE
1 st Periodic	Chapter-1(H)	The French Revolution	13M
	Chapter-1(E)	The Story of village Palampur	6M
	Chapter-2(E)	People as a Resource	6M
	Chapter- 1(G)	India- Size and location	6M
	Chapter-2(G)	Physical Features of India	7M
	Chapter-2(P)	What is Democracy? Why Democracy?	5M
	Chapter-3(P)	Constitutional Design	7M
Half Yearly	Chapter-1(H)	The French Revolution	10M
	Chapter-2(H)	Socialism in Europe and The Russian Revolution	10M
	Chapter-1(E)	The Story of village Palampur	10M
	Chapter-2(E)	People as a Resource	10M
	Chapter-1(G)	India- Size and location	5M
	Chapter-2(G)	Physical Features of India	6M
	Chapter- 3(G)	Drainage	9M
	Chapter-2(P)	What is Democracy? Why Democracy?	5M
	Chapter-3(P)	Constitutional Design	6M
	Chapter-4(P)	Electoral Politics	9M
	Chapter-1(H)	The French Revolution	3M
	Chapter-2(H)	Socialism in Europe and The Russian Revolution	5M
	Chapter-3(H)	Nazism and Rise of Hitler	5M
	Chapter-1(E)	The Story of village Palampur	2M
	Chapter-2(E)	People as a Resource	3M
	Chapter-3(E)	Poverty as a Challenge	7M

2 nd Periodic	Chapter-2(P)	What is Democracy? Why Democracy?	1M
	Chapter-3(P)	Constitutional Design	3M
	Chapter-4(P)	Electoral Politics	3M
	Chapter-5(P)	Working of Institution	5M
	Chapter-1(G)	India- Size and location	1M
	Chapter-2(G)	Physical Features of India	1M
	Chapter-3(G)	Drainage	3M
	Chapter-4(G)	Climate	5M
	Chapter-5(G)	Natural Vegetation And Wild Life	3M
ANNUAL EXAM	Chapter-1(H)	The French Revolution	5M
	Chapter-2(H)	Socialism in Europe and The Russian Revolution	6M
	Chapter-3(H)	Nazism and Rise of Hitler	4M
	Chapter-4(H)	Forest Society And Colonialism	5M
	Chapter-1(E)	The Story of village Palampur	6M
	Chapter-2(E)	People as a Resource	4M
	Chapter-3(E)	Poverty as a Challenge	5M
	Chapter-4(E)	Food Security In India	5M
	Chapter-1(G)	India- Size and location	2M
	Chapter-2(G)	Physical Features of India	3M
	Chapter-3(G)	Drainage	4M
	Chapter-4(G)	Climate	3M
	Chapter-5(G)	Natural Vegetation And Wild Life	5M
	Chapter-6(G)	Population	3M
	Chapter-2(P)	What is Democracy? Why Democracy?	5M
	Chapter-3(P)	Constitutional Design	3M
	Chapter-4(P)	Electoral Politics	4M
	Chapter-5(P)	Working Of Institution	3M
	Chapter-6(P)	Democratic Rights	5M



M.G.M. HIGHER SECONDARY SCHOOL, B.S.CITY
SYLLABUS BREAK-UP FOR THE YEAR : 2021 - 2022
CLASS - IX
SUBJECT : ARTIFICIAL INTELLIGENCE (A.I)

MONTH	Week	Chapter Number, Name & Topic
APRIL	1 st & 2 nd	<p><u>1. INTRODUCTION TO AI:</u> Introduction to AI and setting up the context of the curriculum <u>Ice Breaker Activity: Dream Smart Home idea.</u> # Learners to design a rough layout of floor plan of their dream smart home. Recommended Activity: The AI Game # 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)</p>
	3 rd	<p>Recommended Activity: AI Quiz (Paper Pen/Online Quiz) Recommended Activity: To write a letter <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</p>
	4 th	<p>Recommended Activity: AI Quiz (Paper Pen/Online Quiz) Recommended Activity: To write a letter <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</p>
	5 th	<p><u>Video Session:</u> # To watch a video Introducing the concept of Smart Cities, Smart Schools and Smart Homes Recommended Activity: Write an Interactive Story # 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.</p>
MAY	1 st & 2 nd	<p>Introduction to sustainable development goals Recommended Activity: Go Goals Board Game # Learners to answer questions on Sustainable Development Goals <u>Employability skills</u> # Communication skills-II</p>
	3 rd	<p><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. # 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</p>
	4 th	<p>Recommended Activity: Job Ad Creating activity # 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.</p>
JUNE	4 TH & 5 TH	<p><u>Video Session: Discussing about AI Ethics</u> Recommended Activity: Ethics Awareness # Students play the role of major stakeholders and they have to decide what is ethical and what is not for a given scenario.</p>

<p style="text-align: center;">JULY</p>	<p>1st & 2nd</p> <p>3rd</p> <p>4th & 5th</p>	<p><u>AI Bias and AI Access</u> # Discussing about the possible bias in data collection. Discussing about the implications of AI technology 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.</p> <p>2: AI PROJECT CYCLE Introduction to AI Project Cycle # Problem Scoping # Data Acquisition # Data Exploration # Modelling # Evaluation 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.</p>
<p style="text-align: center;">AUG</p>	<p>1st & 2nd</p> <p>3rd</p> <p>4th & 5th</p>	<p><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. 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? # 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.</p> <p><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. <u>Employability skills</u> # Self-Management Skills-II</p> <p><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</p>

JANUARY	1 st	Practical: Python Lists # Students will try some basic problem solving exercises using lists on Python Compiler.
	2 nd	
	3 rd	Revision
	4 th	Revision
FEBRUARY	1 st	□ □ Revision for Annual Exam # Revision for Annual Exam # Annual Exam
	2 nd	
	3 rd	

PORTION OF EXAM WITH MARKS WEIGHTAGE FOR YEAR 2021-2022

EXAM	CHAPTER NO.	NAME OF CHAPTER	MARKS WEIGHTAGE
HALF YEARLY	Unit-1	INTRODUCTION TO ARTIFICIAL INTELLIGENCE	20
		Meaning of Artificial intelligence, Types of Artificial Intelligence, Three domains of Artificial Intelligence, The relevance of AI in daily life, Using AI to achieve SDGs, Possibilities of AI in various fields, Ethical concerns related to AI access	
	Unit-2	AI PROJECT CYCLE	20
		Introduction to AI project cycle framework, Problem identification, Problem scoping, Data acquisition, Data exploration, Modeling, Evaluation and deployment	
		Employability Skills	10
ANNUAL	Unit-1	INTRODUCTION TO ARTIFICIAL INTELLIGENCE	5
	Unit-2	AI PROJECT CYCLE	5
	Unit-3	INTRODUCTION TO NEURAL NETWORKS	15
		Relation between Networks and Human Nervous System, Artificial Neural Networks, Hw Neural Networks Learn	
	Unit-4	INTRODUCTION TO PYTHON	15
		Introduction to python language, Practical: Python Basics, Python lists	
		Employability Skills	10



M.G.M. HIGHER SECONDARY SCHOOL, B.S.CITY
SYLLABUS BREAK-UP FOR THE YEAR : 2021 - 2022
CLASS - IX
SUBJECT : BIOLOGY

MONTH	WEEK	CHAPTER NO.	CHAPTER NAME AND TOPICS
APRIL	2 nd	05	The fundamental Unit of life Introduction, discovery of cell, cell as a basic unit of life, variation in shape, size and number. Functional regions of cell, Plasma membrane: features and functions
	3 rd		Practical- To prepare a temporary mount of onion peel. Transportation across plasma membrane- diffusion, Osmosis; endocytosis, cell wall.
	4 th		Nucleus: structure and function, eukaryotic and prokaryotic cells; Cytoplasm, Cell organelles: features and functions of Endoplasmic Reticulum
	5 th		Golgi apparatus, lysosomes, mitochondria, plastids, vacuoles.
MAY	1 st & 2 nd	06	Practicals: Preparation of temporary mount of cheek cell TISSUES: Introduction, Are plants and animals made of same type of tissues.
	3 rd		Plant tissues- Meristematic tissues, permanent tissues-
	4 th		Simple Permanent Tissue - Parenchyma, Collenchyma and Sclerenchyma tissues and its functions
	5 th		Protective tissues: epidermis, cork
JUNE	4 th & 5 th		Complex permanent tissues- Xylem and Phloem tissues. Animal tissues- Epithelial tissue
JULY	1 st & 2 nd		connective Tissues, Muscular tissue
	3 rd		Nervous tissue. Practical- Identification of parenchyma, collenchyma and sclerenchyma tissues in plants, striped, smooth and cardiac muscle fibres and nerve cells in animals.
	4 th		DIVERSITY IN THE LIVING WORLD Introduction, idea about classification Basis of classification, classification and evolution, The hierarchy of classification – groups
	5 th	07	Five kingdom classification: features of kingdom Monera, Protista, Fungi, Plantae, Animalia Classification of plant kingdom: basis of classification
AUGUST	1 st		Thallophyta, Bryophyta. Pteridophyta Gymnosperms, Angiosperms, differences between Cryptogamae and Phanerogamae
	2 nd		Kingdom animalia-Introduction, Phylum: Porifera, Colenterata, Platyhelminthes,
	3 rd		Nematoda, Annelida, Arthropoda Mollusca, Echinodermata, Protochordata, Chordata
	4 th		Vetebrata- Pisces, amphibia, reptilian, Aves, mammals;

			<p>Practical - Study of characteristics of spirogyra/agaricus/moss/fern/pinus and an angiospermic plant</p> <p>Practical - Observing the given picture/ charts/models of earthworm/coackroach/bony-fish and bird. One specific feature and adaptive feature.</p>
SEPTEMBER	1 st		<p>Binomial Nomenclature</p> <p>Practical-Study of external features of root, stem, leaf and flower of monocot and dicot plant.</p>
	2 nd		REVISION
	3 rd and 4 th		Half Yearly Examination
	5 th		<p>WHY DO WE FALL ILL?</p> <p>Introduction, Health and its failure, personal and community health, distinction between healthy and disease- free, Signs and symptoms of diseases</p>
OCTOBER	1 st , 2 nd and 3 rd	13	Acute and chronic diseases, causes of diseases, infectious and non-infectious diseases. Diseases caused by microbes, means of spread,
	4 th		organ- specific and tissue specific manifestations. Principle of treatment of diseases
	5 th		Principles of prevention, immunization
NOVEMBER	1 st , 2 nd & 3 rd		<p>NATURAL RESOURCES:</p> <p>Introduction, Physical Resources-Air, Air for respiration, combustion, moderating temperature, Air pollution.</p>
	3 rd		<p>Water- Importance, water pollution</p> <p>Soil: formation, soil erosion, soil pollution.</p> <p>Bio-geo chemical cycles- water cycle</p>
	4 th & 5 th		Nitrogen Cycle; Carbon Cycle
DECEMBER	1 st		The green house effect, , oxygen cycle, Ozone layer
	2 nd	Introduction, sustainable agriculture, Crop, Improvement in yields, crop varietal management	
	3 rd & 4 th	Crop production management, nutrition management, micro and macro nutrients, fertilizers and manure, organic farming	
JANUARY	2 nd	Irrigation, cropping patterns: mixed cropping, inter cropping, crop rotation.	
	3 rd	Protection from weeds pests and diseases; Storage of grains;	
	4 th	cattle farming, poultry farming	
	5 th	Fish farming, bee keeping	

LIST OF EXPERIMENTS

1. prepare a temporary mount of onion peel
2. To prepare of temporary mount of cheek cell.
3. To identify parenchyma, collenchyma and sclerenchyma tissues in plants, striped, smooth and cardiac muscle fibres and nerve cells in animals.

3. To observe the given picture/ charts/models of earthworm/coackroach/bony-fish and bird. One specific feature and adaptive feature.
4. To study of external features of root, stem, leaf and flower of monocot and dicot plant.

PORTION OF EXAM WITH MARKS WEIGHTAGE FOR YEAR 2021-2022

EXAM	CHAPTER NO.	NAME OF THE CHAPTER	MARKS WEIGHTAGE
1 st Periodic	5	• Fundamental Unit of Life	12
	6	• Tissues(up to simple permanent tissue)	06
Half Yearly	05	• Fundamental Unit of Life	06
	06	• Tissues	10
	07	• Diversity in the living world (up to Protochordata)	12
2 nd Periodic	05	• Fundamental Unit of Life	03
	06	• Tissues	04
	07	• Diversity in the living world	03
	13	• Why do we fall ill?	08
	14		
Annual Exam	05	• Fundamental Unit of Life	5M
	06	• Tissues	5M
	07	• Diversity in the living world	5M
	13	• Why do we fall ill?	5M
	14	• Natural resources	6M
	15	• Improvement food resources	4M

For Internal Assessment:

- There will be Periodic Assessment that would include: • For 5 marks- Three periodic tests conducted by the school. Average of the best two tests to be taken that will have a weightage of 05 marks towards the final result.
 - For 5 marks- Diverse methods of assessment as per the need of the class dynamics and curriculum transaction. These may include - short tests, oral test, quiz, concept maps, projects, posters, presentations and enquiry based scientific investigations etc. and use rubrics for arguing them objectively. This will also have a weightage of 05 marks towards the final result.
- b. Practical / Laboratory work should be done throughout the year and the student should maintain record of the same. Practical Assessment should be continuous. There will be weightage of 5 marks towards the final result. All practicals listed in the syllabus must be completed.
- c. Portfolio to be prepared by the student- This would include classwork and other sample of student work and will carry a weightage of 5 marks towards the final results.



M.G.M. HIGHER SECONDARY SCHOOL, B.S.CITY
SYLLABUS BREAK-UP FOR THE YEAR : 2021 - 2022

CLASS - IX

SUBJECT : CHEMISTRY

MONTH	WEEK	CHAPTER NAME	TOPIC
April	2nd	Ch-01 Matter In Our Surrounding	Introduction of matter, classification of matter, physical nature of matter, characteristics of particles of matter, states of matter,
	3rd		Properties of solid state, properties of liquid state, properties of gaseous state comparison of general properties of solid liquid and gases
	4th		Scales of measuring temperature and interconversion of states of matter, effect of change of temperature on states of matter
	5th		Latent heat of fusion and latent heat of vaporization
May	1st		Other states of matter plasma state and BEC, sublimation and applications of sublimation, experiment number -1
	2nd		Effect of change of pressure, evaporation, factors affecting evaporation of liquid
	3rd		Difference in boiling and Evaporation, exercise questions
	4th	Ch-02 Is Matter Around Us Pure	Pure substance, types and properties of pure substances, elements-properties of metals; non metals; metalloids
June	4th & 5th		Compounds, mixture, properties of compound and mixture
July	1 st & 2 nd		Solution, Properties of solution, concentration of a solution
	3rd		Solubility, Numericals on concentration of solution and solubility
	4th		Suspension and properties of colloidal solution, experiment no-2
	5th		Types of colloids, properties of colloids comparison of characteristics of true solution, suspension and colloidal solution
August	1st		Separation of mixtures, separation techniques for solid-solid mixture
	2nd		Separation techniques for liquid-liquid mixture experiment no -3
	3rd		Physical and chemical change, Exercise questions
	4th & 5th	Ch-03 Atoms And Molecules	Laws of chemical combination and law of conservation of mass
September	1st		Law of constant proportion, Dalton's atomic theory, experiment number-4
	2nd		Revision
	3 rd & 4 th		Half Yearly Exam
	5th		Atoms-symbols, atomic mass, Molecules of elements

October	1st & 2nd		Molecules of compounds, atomicity Ions and type of ions
	4th		Chemical formula, gram atomic mass, gram molecular mass, gram formula unit mass, experiment number - 5
	5th		Mole concept, Numerical on mole concept
November	1st & 2nd		Exercise Questions, Introduction- existence of charged particles
	3rd		Discovery of electron, cathode rays and its properties
	4th & 5th		Discovery of proton origin and properties of anode rays
December	1st		Thomson's model of an atom, Rutherford's model of an atom, Drawbacks of Rutherford's atomic model
	2nd		Bohr's model of an atom, experiment number -6
	3rd		Discovery of neutron, atomic number and mass number
	4th		Distribution of electrons in different shells
January	1st		Valence electron and valency
	2nd		Isotopes, application of isotopes, properties of isotopes
	3rd		Reason for fractional atomic mass, isobars and general properties of isobars
	4th		Difference between isotopes and isobars, Exercise Questions
February	1st & 2nd		Revision

PORTION OF EXAM WITH MARKS WEIGHTAGE FOR YEAR 2021 - 2022

EXAM	CHAPTER NO	CHAPTER NAME	MARKS WEIGHTAGE
1 st Periodic Test	1	• Matter in our surrounding	8
	2		8
		• Is matter around us pure (up to elements, compounds and mixtures)	
Half yearly	1	• Matter in our surrounding • Is matter around us pure • Atoms and molecules (up to Dalton's atomic theory)	5
	2		10
	3		8
2 nd Periodic Test	1	• Matter in our surrounding • Is matter around us pure • Atoms and molecules	3
	2		5
	3		8
Annual Exam	1	• Matter in our surrounding • Is matter around us pure • Atoms and molecules • Structure of atoms	5
	2		5
	3		8
	4		5



M.G.M. HIGHER SECONDARY SCHOOL, B.S.CITY
SYLLABUS BREAK-UP FOR THE YEAR : 2021 - 2022
CLASS – IX

SUBJECT: ENGLISH (LANGUAGE AND LITERATURE)

MONTH	WEEK	CHAPTER NO	TOPIC /TOPICNAME
APRIL	2 nd	UNIT -1	LR» THE FUN THEY HAD + WRITING»»DIARY ENTRY
	3 rd	UNIT-1	LR»»THE ROAD NOT TAKEN(POEM) GRAMMAR»» VERB FORMS (TENSES)..... Cont'd
	4 th		GRAMMAR> VERB FORMS (TENSES)..... Cont'd
	5 th		GRAMMAR»» VERB FORMS (TENSES)..... Cont'd
MAY	1 st	UNIT-2	LR> The Sound of Music Part – 1 + GRAMMAR » VERB FORMS (TENSES)
	2 nd	UNIT -2	LR» THE SOUND OF MUSIC- PART 2+ GAP FILLING
	3 rd	UNIT-2 CHAP-1	LR>WIND(POEM) SR»» THE LOST CHILD
	4 th		GRAMMAR»» MODALS + WRITING>DESCRIPTIVE PARAGRAPH+ PROJECT (SUMMER VACATION HOLIDAY HOMEWORK)
JUNE	1 st		WRITING»» INFORMAL LETTER ON A SITUATION.
	4 th	CHAP-2	SR»» THE ADVENTURES OF TOTO + CLOZE PASSAGE
	5 th	UNIT-3	LR»» THE LITTLE GIRL
JULY	1 st	UNIT-3	LR> RAIN ON THE ROOF(POEM)+GRAMMAR»»ACTIVE AND PASSIVE VOICE..... CONT'D
	2 nd	CHAPT-3	SR»» ISWARAN THE STORYTELLER+GRAMMAR»»ACTIVE AND PASSIVE VOICE. PERIODIC TEST -1
	3 rd		GRAMMAR » ACTIVE AND PASSIVE VOICE + WRITING»»STORY WRITING+EDITING
	4 th	UNIT-4	LR»»A TRULY BEAUTIFUL MIND+ THE LAKE ISLE OF INNISFREE(POEM)
	5 th	CHAP-4	SR>IN THE KINGDOM OF FOOLS+GRAMMAR>SUBJECT VERB AGREEMENT.....CONT'D
AUGUST	1 st	UNIT-5	GRAMMAR»» SUBJECT VERB AGREEMENT+LR>A LEGEND OF THE NORTHLAND(POEM)
	2 nd	UNIT -5	LR»»THE SNAKE AND THE MIRROR + GRAMMAR»»REPORTED SPEECH(STATEMENTS)
	3 rd		GRAMMAR»»REPORTED SPEECH (QUESTIONS, COMMANDS AND REQUEST)
	4 th	CHAP-5	SR»»THE HAPPY PRINCE+ GRAMMAR»» CLAUSES AND PHRASES (EXAMPLES AND DIFFERENCE)

SEPTEMBER	1 st	UNIT-6	LR>> MY CHILDHOOD + GRAMMAR>> NOUN CLAUSE
	2 nd	REVISION	REVISION FOR HALF YEARLY EXAMINATION.
	3 rd		HALF YEARLY EXAMINATION
	4 th		HALF YEARLY EXAMINATION
	5 th	UNIT-6	LR>>NO MEN ARE FOREIGN(POEM)+GRAMMAR>>ADVERB CLAUSES OF CONDITION AND TIME.
OCTOBER	2 nd	CHAP-6	GRAMMAR>> RELATIVE CLAUSE+SR>>WEATHERING THE STORM IN ERSAMA.
	4 th	UNIT-7	LR>>PACKING +THE DUCK AND THE KANGAROO(POEM).... CONT'D
	5 th	UNIT-7 CHAP-7	LR>>THE DUCK AND THE KANGAROO (POEM) SR>> THE LAST LEAF
NOVEMBER	1 st		GRAMMAR>>DETERMINERS
	2 nd	UNIT-8	LR>>REACH FOR THE TOP (PART 1) +GRAMMAR>> PREPOSITION..... CONT'D
	3 rd	UNIT-8	GRAMMAR>>PREPOSITION+ LR>> REACH FOR THE TOP(PART-2) CONT'D
	4 th	UNIT-8	LR>> REACH FOR THE TOP(PART-2) + ON KILLING A TREE(POEM)
	5 th	UNIT-9	LR>>THE SNAKE TRYING(POEM)
DECEMBER	1 st	UNIT-9	LR>>THE BOND OF LOVE
	2 nd	CHAP-8	SR>>A HOUSE IS NOT A HOME
	3 rd	UNIT-10 CHAP-9	LR>>KATHMANDU SR>>THE ACCIDENTAL TOURIST
	4 th	CHAP-10	SR>>THE BEGGAR
JANUARY	2 nd	UNIT-10	LR>>A SLUMBER DID MY SPIRIT SEAL(POEM)
	3 rd	UNIT-11	LR>> IF I WERE YOU.
	4 th		DIALOGUE WRITING+INTEGRATED GRAMMAR
	5 th		REPORTING DIALOGUE ON A GIVEN CUE+INTEGRATED GRAMMAR.
FEBRUARY	1 st		REVISION
	2 nd		REVISION

PORTION OF EXAM WITH MARKS WEIGHTAGE FOR YEAR 2021-2022

EXAM	CHAPTER NO	NAME OF THE CHAPTER	MARK WEIGHTAGE
1 ST PERIODIC TEST	(BEEHIVE) UNIT-1 UNIT-2 UNIT-3	THE FUN THEY HAD THE ROAD NOT TAKEN THE SOUND OF MUSIC(PART-1+2) WIND THE LITTLE GIRL RAIN ON THE ROOF	20
	MOMENTS CHAP-1 CHAP-2	THE LOST CHILD THE ADVENTURES OF TOTO	

	GRAMMAR	1.VERB FORMS 2. MODALS 3.ACTIVE AND PASSIVE VOICE 4.INTEGRATED GRAMMAR	10
	WRITING	1.DESCRPTIVE PARAGRAPH 2.DIARY ENTRY 3.INFORMAL LETTER ON SITUATION	8
	UNSEEN PASSAGE (READING)	READING COMPREHENSION	12
NOTE-FIRST PERIODIC PORTION IS INCLUDED IN HALF YEARLY EXAM			
HALF YEARLY	BEEHIVE UNIT-4 UNIT-5	A TRULY BEAUTIFUL MIND THE LAKE ISLE OF INNISFREE THE SNAKE AND THE MIRROR A LEGEND OF THE NORTHLAND	40
	MOMENTS CHAP-3 CHAP-4	ISWARAN THE STORY -TELLER IN THE KINGDOM OF FOOLS	
HALF YEARLY	WRITING +GRAMMAR	1.STORY WRITING 2.REPORTED SPEECH 3.S-V AGREEMENT	20
	READING UNSEEN PASSAGES	READING COMPREHENHIONS	20
NOTE-FIRST PERIODIC TEST PORTION & HALF PORTION IS INCLUDED IN 2ND PERIOD TEST			
	BEEHIVE UNIT-6 UNIT-7 UNIT-8	MY CHILDHOOD NO MEN ARE FOREIGN PACKING THE DUCK AND THE KANGAROO REACH FOR THE TOP (PART I+II)	20
	MOMENTS CHAP-5 CHAP-6 CHAP-7	THE HAPPY PRINCE WEATHERING THE STORM IN ERSAMA THE LAST LEAF	
	GRAMMAR+ WRITING	DETERMINERS+INTEGRATED GRAMMAR	10+8
	READING	UNSEEN PASSAGE	12
ANNUAL EXAM	BEEHIVE UNIT-1 UNIT-2 UNIT-3 UNIT-4 UNIT-5 UNIT-6 UNIT-7 UNIT-8 UNIT-9	ON KILLING A TREE(POEM) THE BOND OF LOVE.	

ANNUAL EXAM	UNIT-9	THE SNAKE TRYING(POEM)	30
	UNIT-10	KATHMANDU	
	UNIT-11	A SLUMBER DID MY SPIRIT SLEEP IF I WERE YOU	
	<u>MOMENTS</u>		
	CHAP-1		
	CHAP-2		
	CHAP-3		
	CHAP-4		
	CHAP-5		
	CHAP-6		
	CHAP-7		
	CHAP-8	A HOUSE IS NOT A HOME	
	CHAP-9	THE ACCIDENTAL TOURIST	
	CHAP-10	THE BEGGAR	
	<u>WRITING</u>	DESCRIPTIVE PARAGRAPH	20+10=30
		DIARY ENTRY	
		STORY WRITING	
		INFORMAL LETTER	
	<u>GRAMMAR</u>	1.TENSES	
		2.ACTIVE AND PASSIVE	
		3.MODALS	
		3.S-V AGREEMENT	
		4.REPORTED SPEECH	
		5.DETERMINER	
		6.PREPOSITION	
	<u>READING</u>	FACTUAL AND DISCURSIVE PASSAGES	8+12=20



M.G.M. HIGHER SECONDARY SCHOOL, B.S.CITY
SYLLABUS BREAK-UP YEAR : 2021 - 2022
CLASS - IX
SUBJECT: HINDI - A

Month	Week	Chapter No.	Chapter Name/Topic
April	2 nd	क्षतिज भाग- 01 व्याकरण- 09 सरस्वती हाउस	01 दो बैलों की कथा – कहानी अर्थ के आधार पर वाक्य
	3 rd	कृतिका भाग- 01	02 ल्हासा की ओर
	4 th	क्षितिज भाग- 01	09 साखियों व सबद में केवल पहला
	5 th	व्याकरण- 09	शब्द निर्माण - उपसर्ग-प्रत्यय
		क्षितिज भाग- 01	10 वाख – कविता
May	1 st	व्याकरण- 09	व्याकरण- समास भेद
	2 nd	कृतिका भाग- 01	02 मेरे संग की औरतें – कहानी
	3 rd	क्षितिज भाग- 01	11 सवैया -
	4 th	व्याकरण- 09	रचनात्मक कार्य एवं मौखिक अभिव्यक्ति अपठित गद्यांश एवं काव्यांश
June	4 th	व्याकरण- 09	पत्र लेखन
	5 th		अंलकार परिभाषा एवं भेद
July	1 st	कृतिका भाग- 01	03 रीढ की हड्डी
	2 nd	क्षितिज भाग- 01	12 कैदी और कोकिला
	3 rd	व्याकरण- 09	संवाद लेखन एवं संवाद लेखन कार्य
	4 th	क्षतिज भाग- 01	04 सॉवले सपनों की याद
	5 th	कृतिका भाग- 01	04 माटी वाली – कहानी
August	1 st	क्षतिज भाग- 01	05 नाना साहब की पुत्री देवी
	2 nd		Revision
	3 rd		
	4 th	व्याकरण- 09	अर्थ के आधार पर वाक्य
September	1 st	क्षतिज भाग- 01	14 चंद्र गहना से लौटती बेर
	2 nd	-----	-----
	3 rd		
	4 th	क्षतिज भाग- 01	06 प्रेमचंद के फटे जूते
	5 th	व्याकरण- 09	व्याकरण- उपसर्ग एवं प्रत्यय
October	2 nd	क्षतिज भाग- 01	15 मेघ आए ,
	4 th	व्याकरण- 09	निबंध लेखन
	5 th	व्याकरण- 09	07 मेरे बचपन के दिन
November	1 st	क्षतिज भाग- 01	व्याकरण- समास परिभाषा एवं भेद
	2 nd	व्याकरण- 09	16 यमराज की दिशा
	3 rd		पत्र लेखन औपचारिक
	4 th		अनौपचारिक

December	1 st	क्षतिज भाग- 01	17 बच्चे काम पर जा रहे हैं
	2 nd	व्याकरण- 09	अंलकार परिभाषा एवं भेद
	3 rd		
	4 th	क्षतिज भाग- 01	कहानी अर्थ समीक्षा
January	1 st	याकरण- 09	संवाद लेखन अपठित गद्यांश एवं काव्यांश
	2 nd	-----	मौखिक अभिव्यक्ति एवं लेखन
	3 rd	क्षतिज भाग- 01	व्याकरण- उपसर्ग एवं प्रत्यय
	4 th	व्याकरण- 09	काव्य का मूल भाव
February	1 st		<u>Revision</u>
	2 nd		
	3 rd		Annual Exam :-

परीक्षा से संबंधित पाठ्यक्रम का वर्णन :-

1st periodic:- जुलाई

अंश – April, May, June

01. दो बैलों की कथा , वाक्य - समास उपसर्ग प्रत्यय
- 02 लहासा की ओर 09 साखी व सबद
- 10 वाख 02 मेरे संग की औरतें , निबंध

Half Yearly :- सितंबर

अंश- July, August, September

अपठित गद्यांश एवं काव्यांश
पत्र, अंलकार ,संवाद ,अर्थ के आधार पर वाक्य निबंध

- 03 रीढ की हड्डी 12 कैदी और कोकिला
- 04 सॉवले सपनों की याद
- 05 नाना साहब
- 04 माटी वाली
- 11 सवैया
- 14 चंद्र गहना से लौटती बेर
- 06 प्रेमचंद के फटे जूते

2nd periodic:- दिसंबर

अंश-October, Noveber, December

- 15 मेघ आए उपसर्ग एवं प्रत्यय, समास, पत्र ,अंलकार
- 07 मेरे बचपन के दिन
- 16 यमराज की दिशा
- 17 बच्चे काम पर जा रहे हैं

Annual Exam :- फरवरी

अंश- April to January

क्षितिज भाग- 01 कृतिका भाग- 01 का पूरा पाठ्यक्रम
व्याकरण – 09 का संपूर्ण पाठ्यक्रम

Marks Weightage

For Periodic :

Marks

खंड क	05
खंड ख	10
खंड ग	25
खंड घ	10

कुल अंक 50

For Half Yearly and Annual Exam

Marks

खंड क	10
खंड ख	16
खंड ग	34
खंड घ	20

कुल अंक 80



M.G.M. HIGHER SECONDARY SCHOOL, B.S.CITY
SYLLABUS BREAK-UP FOR THE YEAR : 2021 - 2022
CLASS - IX
SUBJECT: MATHEMATICS

MONTH	WEEK	CHAPTER NAME	TOPICS
APRIL	2 nd	1. Numbers system	Number systems. Representation of Terminating /non – terminating recurring decimals on a number line. ❖ Operations on real numbers
	3 rd		❖ Representation of irrational numbers on a real line e g ; $\sqrt{2}$, $\sqrt{3}$ etc ❖ Existence of \sqrt{x} and its representation on the Number line with geometric proof
	4 th		❖ Rationalisation ❖ Laws of exponent with integral powers
	5 th	2. Polynomials	❖ Definition of polynomial in one variable, coefficient and degree of a variable ❖ Types of polynomial ❖ Zeroes of polynomial
MAY	1 st /2 nd	2. Polynomials	❖ Remainder theorem and factor theorem ❖ Factorisation of cubic polynomial using factor theorem
	3 rd		❖ Factorisation using identities
	4 th	3. Coordinate geometry	❖ The Cartesian plane ❖ Coordinate of points ❖ Plotting points in the plane
	5 th	4. Linear equations in two variables	❖ Introduction to the equation in two variables ❖ Finding solutions (infinitely many)
	4 th / 5 th	4. Linear equations in two variables	❖ Graph of linear equation in two variable
JULY	1 st		❖ Problems from real life
	2 nd	5. Introduction to Euclid geometry	❖ Euclid's definition axioms and postulates ❖ Equivalent version of 5 th postulates
	3 rd	6. Lines and angles	❖ Properties of line (linear pair) ❖ Angle sum property of a triangle ❖ Exterior angle property
	4 th		❖ Proof of theorems
	5 th	7. Triangles	❖ Congruence of triangles , Criteria for congruence of triangles SAS, ASA(prove) , RHS ,SSS,AAS
AUGUST	1 st	7. Triangles	❖ (Prove) The angle opposite to equal sides of an isosceles triangle are equal
	2 nd		❖ Problems based on theorems ❖ inequalities in a triangle
	3 rd	11. constructions	❖ Construction of bisectors and angle measure 60° ,75° , 45° etc ❖ Construction of triangle given its base, sum of other two sides and one base angle
	4 th		❖ Construction of triangle given its base, difference of other two sides and one base angle

September	1 st		❖ Construction of a triangle of a given perimeter and base angle
	2 nd		REVISION
	3 rd /4 th		HALF YEARLY EXAM
	5 th	12.Heron's formula	❖ Area of triangle using herons formula ❖ Area of quadrilateral
October	1 st /2 nd	8. Quadrilaterals	❖ Angle sum property of a quadrilateral, Types of quadrilateral, ❖ properties of parallelogram, ❖ The midpoint Theorem
	4 th		❖ Result of motivated proofs
	5 th	9. Area of parallelograms and triangle	❖ Parallelogram on the same base (prove) ❖ Result of motivated proofs
November	1 st /2 nd	10. circle	❖ Definition of circle and related concepts. ❖ Equal chord subtend equal angle at the centre (Prove) ❖ Result of a motivated proofs.
	3 rd		❖ The angle subtend at the centre (prove)
	4 th		❖ Problems based on the results of the theorems and proofs
	5 th	13. surface are and volume	❖ Surface area of cube, cuboid, spheres.
December	1 st	13. surface are and volume	❖ Surface area of right circular cylinder and cone
	2 nd		❖ Volume of solid shapes
	3 rd	14. statistics	❖ Collection of data and its tabular form
	4 th		❖ Mean, Median & Mode of ungrouped data
January	2 nd		❖ Bar graph, histogram
	3 rd		❖ frequency polygon
	4 th	15. probability	❖ Total outcome, Events, sample space. ❖ Experiments from real life situations.
	5 th		❖ REVISION FOR FINAL EXAM

PORTION OF EXAM WITH MARKS WEIGHTAGE FOR YEAR 2021 – 2022

Exam	Chapter no.	Chapter name	Mark allotted
I PERIODIC	1	Real Number	17
	2	Polynomials	17
	3	Linear equation in two variable	10
	4	Co-ordinate geometry	6
HALF YEARLY	1	Real Number	14
	2	Polynomials	20
	3	Linear equation in two variable	6
	4	Co-ordinate geometry	4
	6	Lines and angle	15
	7	Triangle	15
	11	Construction	6
II PERIODIC	1	Real Number	3
	2	Polynomials	4
	3	Linear equation in two variable	4
	4	Co-ordinate geometry	3
	6	Lines and angle	4
	7	Triangle	4
	11	Construction	6
	12	Areas (Heron's Formula)	4
	8	Quadrilateral	6
	9	Area of parallelogram	6
10	Circles	6	
ANNUAL EXAM		WHOLE PORTION	
UNIT I	Number system		8
UNIT II	Algebra		17
UNIT III	Co-ordinate geometry		4
UNIT IV	Geometry		28
UNIT V	Menstruation		13
UNIT VI	Statistics and Probability		10
			80



M.G.M. HIGHER SECONDARY SCHOOL, B.S.CITY
SYLLABUS BREAK-UP FOR THE YEAR : 2021 - 2022

CLASS - IX

SUBJECT : MULTI SKILL FOUNDATION COURSE (416)

MONTH	Week	Chapter Number, Name & Topic
APRIL	1 st & 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 <u>Employability skills</u> # Communication skills-II
	3 rd	# Welding
	4 th	# Study of construction material
JUNE	4 TH & 5 TH	# 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 # Types of wire, cable and switches
	3 rd	# Joints of Electrical Conductor wires # Simple wiring
	4 th & 5 th	# Types of wiring – Staircase wiring, Godown Wiring # Earthing # Types and function of fuse # Miniature circuit breaker (MCB)
August	1 st & 2 nd	# Soldering # Maintenance of lead acid battery
	3 rd	# Maintenance and application of various types of stoves # Types of Light
	4 th & 5 th	# Generate electricity bill and measures to save electricity. # Soak pit / Septic tank – purpose and operating system
SEPTEMBER	1 st	# Waste management and regeneration # Drawing a flow chart <u>Employability skills</u> # Self-Management Skills-II
	2 nd	Revision and practical
	3 rd	Half yearly Examination

	4 th 5 th	Half yearly Examination <u>Unit 3: Introduction to basics of gardening, nursery and agriculture</u> # Machines and equipment's for agriculture # land cultivation, crop plantation, fertilizer application, mulching
OCTOBER	1 st & 2 nd 3 rd , 4 th & 5 th	# seed plantation and seed treatment # 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-II <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	# food preservation methods (drying, pickling, brining- putting in syrup, freezing, canning) # costing, packing and labelling of food Products <u>Employability skills</u> # Entrepreneurial skills-II # 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	<u>Employability skills</u> # Green skills-II 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



M.G.M. HIGHER SECONDARY SCHOOL, B.S.CITY
SYLLABUS BREAK-UP YEAR : 2021 - 2022
CLASS - IX
SUBJECT : PHYSICS

MONTH	WEEK	CHAPTER NO. AND NAME	TOPICS
April	2 ND	Chapter-8.Motion	Describing motion, Measuring the rate of motion
	3 RD		Rate of change of velocity
	4 TH		Graphical representation of motion
	5 TH		Equation of motion by graphical method
May	2 ND	Chapter-9.Force and laws of motion	Uniform circular motion
	3 RD		Numericals
	4 TH		Balanced and unbalanced forces, First law of motion
	5 TH		Inertia and mass
June	4 TH		Second law of motion, Mathematical formulation of second law of motion;
	5 TH		Numericals based on second law of motion, Third law of motion
July	1 ST	Chapter10.Gravitation	Conservation of momentum. Revision
	2 ND		Numericals based on conservation of momentum
	3 RD		Universal law of gravitation
	4 TH		Kepler's law, Inverse square law
	5 TH		Free fall, To calculate the value of g
August	1 ST		Motion of objects under the influence of gravitational force of earth
	2 ND		Numericals based on equations of motion under gravitational force
	3 RD		Mass and weight, weight of objects on the moon, Numericals based on weight of object on earth and moon
	4 TH		Chapter 10-Flotation Thrust and Pressure ,Numericals. Revision
September	1 ST		Pressure in fluids, Numericals
	2 ND		Revision Buoyancy, Numericals
	3 RD		Revision
	4 TH		Half Yearly exam
	5 TH		Density, relative density, Archimedes Principle, Revision Experiment-I&2
October	2 ND	Chapter-11 Work, Energy and Power	Work, Energy
	4 TH		Kinetic energy, Potential energy, Numericals based on it. Revision
	5 TH		Law of conservation of energy .Rate of doing work ,Revision

November	1 ST & 2 ND 3 RD 4 TH & 5 TH	Chapter-12 Sound	Production of sound, Propagation of sound Reflection of sound, uses of multiple reflection of sound Echo, Reverberation
December	1 ST 2 ND 3 RD 4 TH		Range of hearing, application of ultrasound Structure of ear Experiment-III and IV Revision
January	2 ND 3 RD 4 TH 5 TH		Revision Revision Revision Revision
February	1 ST 2 ND 3 RD 4 TH		Revision Revision Annual Exam

PORTION OF EXAM WITH MARKS WEIGHTAGE

Exam	Chapter No.	Chapter Name	Marks Weightage
Periodic-I	Chapter-8	Motion	8
	Chapter-9	Force and laws of motion(upto Newton's second law)	8
Half Yearly	Chapter-8	Motion	6
	Chapter-9	Force and laws of motion	7
	Chapter-10	Gravitation(upto Pressure)	14
Periodic-II	Chapter-8	Motion	3
	Chapter-9	Force and laws of motion Gravitation	3
	Chapter-10	Work, Energy and Power	5
	Chapter-11		5
Annual Exam	Chapter-8	Motion	3
	Chapter-9	Force and laws of motion Gravitation	5
	Chapter-10	Work, energy and power	7
	Chapter-11	Sound	7
	Chapter-12		5



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SYLLABUS BREAK-UP FOR THE YEAR : 2021 - 2022

CLASS - IX

SUBJECT: SANSKRIT

MONTH	WEEK	CHAPTER NO	CHAPTER NAME
April	2nd	शेमुषी भाग 1 पाठ 1 व्याकरणम्	भारतीयवसन्तगीति: स्वर सन्धि: – दीर्घ , गुण
	3rd	शेमुषी भाग 1 पाठ 1 व्याकरणम्	भारतीयवसन्तगीति: स्वर सन्धि:– वृद्धि , यण्
	4th	शेमुषी पाठ 2 व्याकरणम्	स्वर्णकाक: स्वर सन्धि:– अयादि व्यंजन सन्धि:– जशत्व सन्धि:
	5th	शेमुषी पाठ 2 व्याकरणम्	स्वर्णकाक: व्यंजन सन्धि:–म् स्थाने अनुस्वार विसर्ग सन्धि:–उत्त्व , सत्व सन्धि:
May	1st	शेमुषी पाठ व्याकरणम् उपसर्ग	स्वर्णकाक: संख्या 1–100 उपसर्ग –आ , वि , प्रति , उप , अनु , निर् , प्र , अधि , अप , नि , अव , परा , सम् , निस् , दुस् , दुर् , अति , सु , उत् , अभि , परि , अपि
	2nd	शेमुषी पाठ 3 रचनात्मकम् व्याकरणम्	गोदोहनम् पत्र–लेखनम् चित्र–लेखनम् संख्या 1–100
	3rd	शेमुषी पाठ 3 रचनात्मकम् व्याकरणम् शब्दरूपाणि	गोदोहनम् अनुच्छेद–लेखनम् अकारान्ताः पु० – बालकवत् उकारान्ताः पु० – साधुवत् इकारान्ताः पु० – मुनिवत् इकारान्ताः स्त्री० – मतिवत् आकारान्ताः स्त्री० – लतावत् ईकारान्ताः स्त्री० – नदीवत् उकारान्ताः स्त्री० – धेनुवत्
	4th	शेमुषी पाठ 3 व्याकरणम् शब्दरूपाणि	गोदोहनम् अस्मद् , युष्मद् , किम् , तत् (त्रिषु लिंगेषु) ऋकारान्ताः स्त्री०– मातृवत् ऌकारान्ताः पु० – पितृवत्

June	4th	शेमुषी पाठ 4 अपठित अवबोधनम्	कल्पतरुः हलन्ताः— राजन् , भवत् , गुणिन् , विद्वस् सूक्तिमौक्तिकम् अपठित गद्यांशम्
	5th	शेमुषी पाठ 5 रचनात्मकम्	कल्पतरुः अकारान्ताः नपु० —फलवत् इकारान्ताः नपु० —वारिवत् उकारान्ताः नपु० — मधुवत् हलन्ताः नपु० — जगत्वत् अनुवादाः (हिन्दीभाषायाः संस्कृतभाषायाम्)
July	1st	शेमुषी पाठ 4 व्याकरणम् धातुरुपाणि परस्मैपदिनः	कल्पतरुः कृ , वद् , गम् , भू , क्रीड् , नी , दृश् , पठ् , अस् , पा , त्यज् , स्था , शक् , क्षाल् , ज्ञा , श्रु , स्मृ , मिल् , कुप् , दा , सूच् , रक्ष् , हस् , धृ (लट् , लोट् , लृट् , लङ्ग , विधिलिङ्ग लकार)
	2nd	शेमुषी पाठ 5 व्याकरणम् धातुरुपाणि आत्मनेपदिनः	सूक्तिमौक्तिकम् सेव् , लभ् , वन्द् , रुच् (लट् , लृट् , लङ्ग लकार)
	3rd	शेमुषी पाठ 5 व्याकरणम् प्रत्ययः	सूक्तिमौक्तिकम् कत्वा , ल्यप् , तुमुन्
	4th	शेमुषी पाठ 1,2 व्याकरणम् प्रत्ययः	सूक्तिमौक्तिकम् स्वर्णकाकः (पुनरावृत्ति) क्तवतु , क्त
	5th	शेमुषी पाठ 2 व्याकरणम् प्रत्ययः	भारतीवसन्तगीतिः(पुनरावृत्ति) शत् , शानच्
August	1st	शेमुषी पाठ 3 व्याकरणम् कारकपरिचयः उपपद विभक्तयः च	स्वर्णकाकः (पुनरावृत्ति) द्वितीया विभक्ति —समया , प्रति , निकषा , विना , परितः , उभयतः , धिक्
	2nd	शेमुषी पाठ 3 व्याकरणम्	गोदोहनम् (पुनरावृत्ति)

		कारकपरिचयः उपपद विभक्तयः च	तृतीया विभक्ति – अलम् ,विना, हीन, सह ,साकम् , समम् , सार्धम् चतुर्थी विभक्ति – कुप् / क्रुध् , रुच् , नमः , दा , स्वस्ति , स्वाहा
	3rd	शेमुषी पाठ 4 व्याकरणम् कारकपरिचयः उपपद विभक्तयः च	कल्पतरुः पंचमी विभक्ति –विना , बहिः , भी, रक्ष् , पूर्वम् , परः , ऋते , रक्ष् , अनन्तरम् , षष्ठी विभक्ति – अधः ,उपरि , पुरतः , पृष्ठतः, वामतः , दक्षिणतः , निर्धारणे
	4th	शेमुषी पाठ 4 व्याकरणम् प कारकपरिचयः उपपद विभक्तयः च	सूक्तिमौक्तिकम् (पुनरावृति) सप्तमी विभक्ति –निपुणः , स्निह् ,विश्वस् ,कुशलः , प्रवीणः
September	1st	शेमुषी पाठ 5 रचनात्मकम् व्याकरणम्	सूक्तिमौक्तिकम् (पुनरावृति) अनुवादाः (पुनरावृति) प्रत्ययः(पुनरावृति) शब्दरूप ,धातु रूप (पुनरावृति)
	2nd	व्याकरणम्	सन्धिः (पुनरावृति) उपपद विभक्ति (पुनरावृति) संख्या 1–100 (पुनरावृति) चित्र लेखनम्
		मध्यावधिः परीक्षा	
	5th	शेमुषी पाठ 6 व्याकरणम्	भ्रान्तो बालः स्वर सन्धिः (पुनरावृति)
October	1st	शेमुषी पाठ 6 व्याकरणम्	भ्रान्तो बालः व्यंजन सन्धिः (पुनरावृति)
	3rd	शेमुषी पाठ 6 व्याकरणम्	भ्रान्तो बालः विसर्ग सन्धिः (पुनरावृति)
	4th	शेमुषी पाठ 8 व्याकरणम्	लौहतुला सिकतासेतुः कत्वा , ल्यप् प्रत्यय (पुनरावृति)
November	1st	शेमुषी पाठ 8 व्याकरणम्	लौहतुला तुमुन् , क्तवतु प्रत्यय (पुनरावृति)
	2nd	शेमुषी पाठ 8 व्याकरणम्	लौहतुला सिकतासेतुः शतृ , शानच् प्रत्यय (पुनरावृति)

	3rd	शेमुषी पाठ 9 व्याकरणम्	सिकतासेतुः धातुरूप (पुनरावृत्ति)
	4th	शेमुषी पाठ 9 व्याकरणम्	सिकतासेतुः शब्दरूप (पुनरावृत्ति)
	5th	शेमुषी पाठ 9 व्याकरणम्	सिकतासेतुः उपपद विभक्तिः (पुनरावृत्ति)
December	1st	शेमुषी पाठ 10 व्याकरणम्	जटायोः शौर्यम् उपपद विभक्तिः (पुनरावृत्ति)
	2nd	शेमुषी पाठ 10 व्याकरणम्	जटायोः शौर्यम् संख्या 1-100 (पुनरावृत्ति)
	3rd	शेमुषी पाठ 10 व्याकरणम्	जटायोः शौर्यम् पर्यावरणम् उपसर्गाः (पुनरावृत्ति)
	4th	रचनात्मकम्	अनुवादाः (पुनरावृत्ति) पत्र-लेखनम् (पुनरावृत्ति)
January	1st	शेमुषी पाठ 11 रचनात्मकम्	पर्यावरणम् चित्रलेखनम् (पुनरावृत्ति)
	2nd	शेमुषी पाठ 11 व्याकरणम्	पर्यावरणम् अपठित गद्यांशम् (पुनरावृत्ति)
	3rd	शेमुषी पाठ 11 रचनात्मकम्	पर्यावरणम् अनुच्छेद-लेखनम् पुनरावृत्ति
	4th	शेमुषी पाठ 1,2,3 व्याकरणम्	पुनरावृत्ति शतृ , शानच् प्रत्यय (पुनरावृत्ति)
	5th	शेमुषी पाठ 4 ,5, 6 व्याकरणम्	पुनरावृत्ति सन्धिः (पुनरावृत्ति)
February	1st	शेमुषी पाठ 8 ,9 व्याकरणम्	पुनरावृत्ति अनुवादाः (पुनरावृत्ति)
	2nd	शेमुषी पाठ 10,11 व्याकरणम्	पुनरावृत्ति सम्पूर्णम् व्याकरणम्

PORTION OF EXAM WITH MARKS WEIGHTAGE FOR YEAR 2021-2022

Exam	Chapter no	Name of chapter	Marks Weightage
1st periodic	शेमुषी भाग 1		20
	पाठ 1	भारतीवसन्तगीति:	
	पाठ 2	स्वर्णकाक:	
	पाठ 3	गोदोहनम्	
	व्याकरणम्	सन्धि: शब्दरुप संख्या उपसर्ग	10
	अपठित अवबोधनम्	अपठित गद्यांशम्	5
	रचनात्मक-लेखनम्	पत्र-लेखनम् , चित्र-लेखनम् , अनुच्छेद-लेखनम् , अनुवादा:	15
Half yearly exam	शेमुषी 1		30
	पाठ 1	भारतीवसन्तगीति:	
	पाठ 2	स्वर्णकाक:	
	पाठ 3	गोदोहनम्	
	पाठ 4	कल्पतरु:	
	पाठ 5	सूक्तिमौक्तिकम्	
	व्याकरणम्	सन्धि: , शब्दरुप , धातुरुप, उपपद विभक्ति: , प्रत्यय -क्त्वा , ल्यप् ,तुमुन् , क्तवतु ,शतृ , शानच् उपसर्ग- संख्या	25
अपठित अवबोधनम्	अपठित गद्यांशम्	10	
रचनात्मक-लेखनम्	पत्र-लेखनम् , चित्र-लेखनम् , अनुच्छेद-लेखनम् , अनुवादा:	15	
	शेमुषी		20
	पाठ 1	भारतीवसन्तगीति:	
	पाठ 2	स्वर्णकाक:	
	पाठ 3	गोदोहनम्	
	पाठ 4	कल्पतरु:	



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SYLLABUS BREAK-UP FOR THE YEAR : 2021 - 2022

CLASS - IX

SUBJECT : SOCIAL SCIENCE (GEOGRAPHY AND POLITICAL SCIENCE)

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

OCTOBER	2 nd and 3 rd	Geo 4	Climate – Introduction, Factors affecting India’s climate, The Indian Monsoon
	4 th	GEO 4	The Onset of the Monsoon and withdrawal , The Cold Weather Season
	5 th		The Hot Weather Season, 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 – relief, climate, 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, population growth, processes of population , age composition
	5 th	Geo 6	Sex ratio, literacy rate, occupational structure, health, adolescent population, National Population Policy
	FEBRUARY	1 st	REVISION
2 nd		EXAM	ANNUAL EXAM
