DAV POLICE PUBLIC SCHOOL JHAJJAR SYLLABUS CLASS-10

S.N.	SUBJECT	MONTH	CHAPTER NAME	TOPIC COVERED
1.	Math	April	1.Real Numbers	 Introduction to Real Numbers Euclid's Division Lemma The Fundamental Theorem of Arithmetic Revisiting Irrational Numbers Revisiting Rational Numbers and Their Decimal Expansions
2.		Мау	2. Polynomials 3. Pair Of Linear Equations In Two Variables	 Introduction Polynomials Geometrical Meaning of the Zeroes of a Polynomial Relationship between Zeroes and Coefficients of a Polynomial Division Algorithm for Polynomials Introduction to Pair Of Linear Equations In Two Variables Pair of Linear Equations in Two Variables Graphical Method of Solution of a Pair of Linear Equations Algebraic Methods of Solving a Pair of Linear Equations Equations Reducible to a Pair of Linear Equations in Two Variables
3.		June	Summer Vacations	
4.		July	4.Quadratic Equations 5.Arithmetic Progressions	 Introduction to Quadratic Equations Quadratic Equations Solution of a Quadratic Equation by Factorisation Solution of a Quadratic Equation by Completing the Square Nature of Roots ✓ Introduction Arithmetic

			Progressions
			 nth Term of an AP
			Sum of First n Terms of an AP
5.	August	6.Triangles	Triangles Introduction
			Similar Figures
			Similarity of Triangles
			 Criteria for Similarity of Triangles
			Areas of Similar Triangles
			Pythagoras Theorem
		7.Coordinate Geometry	*
		Trosorumate Coomeny	Coordinate Geometry Introduction
			Distance Formula
			Section Formula
			Area of a Triangle
6.	September	8.Introduction To Trigonometry	Introduction To Trigonometry Trigonometry Trigonometry Trigonometry
			Trigonometric Ratios Trigonometric Ratios of Some
			Trigonometric Ratios of Some Specific Angles
			 Trigonometric Ratios of Complementary Angles
			Trigonometric Identities
7.	October	9.Some Applications Of Trigonometry	 Introduction to Some Applications Of Trigonometry
			Heights and Distances
		10.Circles	✓
		To. Officies	Circles Introduction
			 Tangent to a Circle
			 Number of Tangents from a Point on a Circle
8.	November	11.Constructions	Introduction to Constructions
			Division of a Line Segment
			 Construction of Tangents to a Circle
		12.Areas Related To Circles	✓ · · · · · · · · · · · · · · · · · · ·
			Areas Related To Circles Introduction
			 Perimeter and Area of a Circle- A Review
			 Areas of Sector and Segment of a Circle
			 Areas of Combination of Plane Figures
			•
9.	December	13.Surface Areas And Volumes	Surface Areas And Volumes

Introduction
 Surface Area of a Combination of Solids
 Volume of a Combination of Solids
 Conversion of Solid from One Shape to Another
 Frustum of a Cone
✓
Statistics Introduction
 Mean of Grouped Data
Mode of Grouped Data
Median of Grouped Data
Graphical Representation of
Cumulative Frequency Distribution
✓
 Probability Introduction
 Probability-A Theoretical
Approach
 Styles/ categories in Word Processor Styles and Formatting window
Fill Format
 Creating and updating new style from selection
 Load style from template another document
 Creating a new style using drag-
and drop
 Applying styles.
 Options to insert image to
document from various sources.
 Options to modify, resize, crop
and delete an image. Drawing
and delete an image. Drawing objects and its properties.
and delete an image. Drawing objects and its properties.Creating drawing objects and
and delete an image. Drawing objects and its properties.
and delete an image. Drawing objects and its properties.Creating drawing objects and changing its properties.
 and delete an image. Drawing objects and its properties. Creating drawing objects and changing its properties. Resizing and grouping drawing
 and delete an image. Drawing objects and its properties. Creating drawing objects and changing its properties. Resizing and grouping drawing objects. Positioning image in the text.
 and delete an image. Drawing objects and its properties. Creating drawing objects and changing its properties. Resizing and grouping drawing objects. Positioning image in the text. Templates
 and delete an image. Drawing objects and its properties. Creating drawing objects and changing its properties. Resizing and grouping drawing objects. Positioning image in the text.

			, ,
			Updating a document.Changing to a different template.
			Using the Template.
			Table of contents. Hierarchy of
			headings. Customization of table
			of contents. Character styles.Maintaining a table of contents.
		Ch-4 Create and Customize table of	
		contents	 Advance concept of mail merge in word processing
			Creating a main document
		Ch-5 Implement Mail Merge	Creating the data source
		en 3 imperient wan werge	Entering data in the fieldMerging the data source with
			main document
			Editing individual document
			 Printing a letter and its address label
2	May	Unit-2 Electronic	10.00
		Spreadsheet(Advanced)	 Using consolidating data,
		Ch-1 Analyse data using scenarios	Creating subtotals.
		and goal seek	Using "what if" scenarios.Using
			"what if" toolsUsing goal seek and solver.
		Ch-2 Link data and spreadsheet	 Setting up multiple sheets. Creating reference to other
		· ·	sheets by using keyboard and
			mouse.
			 Creating reference to other document by using keyboard and mouse.
			Relative and absolute hyperlinks
			Hyperlinks to the sheet
			Linking to external data.Linking to registered data
			sources.
		Ch-3 Share and review a spreadsheet	 Setting up a spreadsheet for sharing.
			Opening and saving a shared
			spreadsheet.
			Recording changes.Add, Edit and Format the
			comments. Reviewing changes –
			view,accept or reject changes.
			Merging and comparing.Using the macro recorder.
		Ch-4 Create and use Macro in	Creating a simple macro. Using a
		spreadsheet	macro as a function.
		·	 Passing arguments to a macro.

			 Passing the arguments areas values. Macros to work like built-in functions. Accessing cells directly. Sorting the columns using macro
3.	June	Summer Vacation	
4.	July	Unit-3 Database Management System Ch-1 Appreciate the concept of database Management System	 Concept and examples of data and information, Concept of database, Advantages of database, Features of database Concept and examples of Relational database, Concept and examples of field,
		Ch-2 Create and edit tables using	 record, table, database, Concept and examples of Primary key, composite primary key, foreign key, Relational Data base management system Introduction to a RDBMS Database objects –
		wizard and sql commands	tables, queries, forms, and reports of the database, Terms in database – table, field, record, Steps to create a table usingtable wizard, Data types in Base, Option to set primary key Table Data View dialog box DDL Commands
		Ch-3 Perform Operations on table	 Inserting data in the table, Editing records in the table, Deleting records from the table, Sorting data in the table, Referential integrity, Creating and editing relationships one to one, one to many, many to many, Field properties.
		Ch-4 Retrieve data using query	 Database query, Defining query, Query creation using wizard, Creation of query using design view Editing a query, Applying criteria in query – single field, multiple fields, using wildcard, Performing calculations Grouping of data,

		Ch-5 Create Forms and Reports Using wizard	 Structured Query Language Forms in Base, Creating form using wizard, Steps to create form using Form Wizard, Options to enter or remove data from forms Modifying form, Changing label, background, Searching record using Form, Inserting and deleting record using Form View,
			 Concept of Report in Base, Creating Report using wizard, Steps to create Report using wizard
5.	August	Unit-4 Web Application and	
		Securitry Ch-1 Working With Accessibility Options	 Understand various types of impairment that impact computer usage Computer Accessibility Dialog box and its tabs Serial Keys Network and its types. Client
		Ch-2 Understanding Networking Fundamentals	Server Architecture, Peerto-peer (P2P) Architecture, internet, World Wide Web, Benefits of networking internet, getting access to internet, internet terminology Some of the commonly used Internet connectivity options Data transfer on the Internet
		Ch-3 Introduction to Instant Messaging	 learn key features of instant messaging Creating an instant messaging account Launching Google Talk Signing In into your Google Talk
		Ch-4 Chatting with a Contact-Google Talk	 Learn to chat with a contact that is already added to your contact list. Sending text chat messages instantly by double-clicking on a contact. General rules and etiquettes to be followed while chatting. chatting on various types of messengers learn and appreciate a blog and

		Ch-5 Creating and Publishing Web	 its creation with the help of some blog providers set up title and other parameters in a blog posting comments
		Pages-Blogs	using offline blog editors
6.	September	Unit-4 Web Application and Securitry Ch-6 Using Offline Blog Editors	 Concept to create blogs using a blog application and publish the blog whenever internet connectivity is available.
		Ch-7 Online Transaction	 concept of e-commerce and various online applications importance of secure passwords
		Ch-8 Internet Security	 Need of internet security Cyber threats like phishing, email-spoofing, char spoofing etc. Best practices for internet security and secure passwords concept of browser, cookies, backup, antivirus clearing data in browsers
		Ch-9 Maintain Workplace safety	 Basic safety rules to follow at workplace – Fire safety, Falls and slips, Electrical safety, Use of first aid. Case Studies of hazardous situations
		Ch-10 Prevent Accidents and Emergencies	 Accidents and emergency, Types of Accidents, Handling Accidents Types of Emergencies.
		Ch-11 Protect Health and Safety at work	Hazards and sources of hazards,General evacuation procedures,Healthy living.
7.	October	Part-A employability Skills Unit-1 Communication Skill-II Ch-1 Demostrate knowledge of	Methods of communication,
		Various methods of communication Ch-2 Provide descriptive and specific feedback	 Verbal, Non Verbal, Visual Communication cycle and importance of feedback Meaning and Importance of feedback. Descriptive feedback-written comments or conversations Specific and non-specific

		T	feedback
			тееараск
		Ch-3 Apply measures to overcome barriers in communication	 Barriers to effective communication-types and factors. Measures to overcome barriers ineffective Communication
		Ch-4 Apply principle of communication	 Principle of effective communication 7C's of effective communication
		Ch-5 Demonstrate basic writing skills	 Sentence, Phrase, Kinds of Sentence, Parts of Sentence Parts of speech Articles Construction of paragraph
8.	November	Unit-2 Self-management skills-II	•
		Ch-1 Apply stress management techniques Ch-2 Demonstrate the ability to work independently	 Meaning and Importance of stress management Stress management techniques-physical exercise, yoga, meditation Enjoying, going to vacations and holidays with family and friends Taxing nature walks Importance of the ability to work independently Describe the types of self – awareness Describe the meaning of self motivation and self –regulation
		Unit-3: Information and Communication Technology Skills-II	
		Ch-1 Distinguish between different operating systems	 Classes of operating systems Menu,icons and taskbar on the desktop File concept file operations, file organization, directory structure and file system structure Creating and managing files and folders
		Ch-2 Apply basic skills for care and maintenance of computer	 Importance and need of care and maintenance of computer Cleaning computer components Preparing maintenanace schedule Protecting computer against viruses Scanning and cleaning viruses and

				removing SPAM file temporary
				files and folders
9.		December	Unit-4 Entrepreneurial skills-II	
			Ch-1 List the characteristics of successful entrepreneur	 Entrepreneurship and society Qualities and functions of entrepreneur Role and importance of an entrepreneur Myth about entrepreneur Entrepreneurship as a career option
			Ch-2 Demonstrate the Knowledge of importance ,problems and solutions	Definition of sustainable development
			related to sustainable development	Importance of sustainable development Problems related to sustainable development
10.		January	Revision	
11.		February	Revision	
12.		March	Revision and Final examination	
	Social science			
1		April	Contemporary India -II	
			1.Resources and Development	Types of Resources, Development of Resources, Resources Planning in India, Land Resources, Land Utilization, Land use Pattern in India, Land Degradation and Conservation Measures, Soil as a Resource, Classification of Soil, Soil Erosion and Soil Conservation
			2. Forest and Wildlife	Biodiversity and Biological Diversity, Flora and Fauna in India, Vanishing Forests, Asiatic Cheetah: Where did they go?, The Himalayan Yew in Trouble, Conservation of Forest and wildlife in India, Project Tiger, Types and Distribution of Forest and Wildlife Resources, Community and Conservation
			3. Water Resources	Water Scarcity and the need for Water Conservation and Management, Multipurpose River Projects and Integrated Water Resources Management, Rainwater Harvesting
			4. Agriculture	Types of Farming, Cropping Pattern, Major Crops , Technological and Institutional Reforms, Impact of Globalization on Agriculture
			5. Minerals and Energy Resources	What is a mineral?, Mode of occurrence of Minerals, Ferrons and Non-Ferrons Minerals, Non-Metallic Minerals, Rock Minerals, Conservation of Minerals, Energy Resources, Conventional and Non-Conventional, Conservation of

			Energy Resources
2	May	6.Manufacturing Industries	Importance of manufacturing, Contribution of Industry to National Economy, Industrial Location, Classification of Industries, Spatial distribution, Industrial pollution and environmental degradation, Control of Environmental Degradation
		7. Life Lines of National Economy	Transport – Roadways, Railways, Pipelines, Waterways, Airways, Communication, International Trade, Tourism as a Trade
3	June	Summer Vacations	
4	July	Understanding Economic Development	
		1. Development	What Development Promises - Different people different goals , Income and other goals , National Development , How to compare different countries or states? , Income and other criteria , Public Facilities , Sustainability of development
		2. Sectors of the Indian Economy	Sectors of Economic Activities, Comparing the three sectors, Primary, Secondary and Tertiary Sectors in India, Division of sectors as organized and unorganized, Sectors in terms of ownership: Public and Private Sectors
5	August	3.Money and Credit	Money as a medium of exchange, Modern forms of money, Loan activities of Banks, Two different credit situations, Terms of credit, Formal sector credit in India, Self Help Groups for the Poor
		4. Globalization and the Indian Economy	Production across countries, Interlinking production across countries, Foreign Trade and integration of markets, What is globalization?, Factors that have enabled Globalisation, World Trade Organisation, Impact of Globalization on India, The Struggle for a fair Globalisation
		5. Consumer Rights	Rights of the Consumers, The Consumer in Market Place, Consumer Movement, Consumer Rights,
6	September	Democratic Politics – II	,
		1. Power Sharing	Case Studies of Belgium and Sri Lanka, Why power sharing is desirable?, Forms of Power Sharing
		2. Federalism	What is Federalism?, What make India a Federal Country?, How is Federalism practiced?, Decentralization in India
7	October	3. Democracy and Diversity	Case Studies of Mexico , Differences, similarities and divisions , Politics of social divisions
		4. Gender, Religion and Caste	Gender and Politics , Religion,

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				Communalism and Politics, Caste and Politics
			5. Popular Struggles and Movements	Popular Struggles in Nepal and Bolivia,
				Mobilization and Organization , Pressure
				Groups and Movements
			6. Political Parties	Why do we need Political Parties? , How
				many Parties should we have? , National
				Political Parties , State Parties ,
				Challenges to Political Parties , How can
		<u> </u>		Parties be reformed?
8		November	7. Outcomes of Democracy	How do we assess democracy's
				outcomes?, Accountable, responsive and
				legitimate government, Economic growth and development, Reduction of
				inequality and poverty , Accommodation
				of social diversity , Dignity and freedom
				of the citizens
			8. Challenges to Democracy	Thinking about challenges , Thinking
				about Political Reforms, Redefining
				democracy
			India and the Contemporary World – II	
			1. The Rise of Nationalism in Europe	The French Revolution and the Idea of the
				Nation, The Making of Nationalism in
				Europe , The Age of Revolutions: 1830-
				1848 , The Making of Germany and Italy
				, Visualizing the Nation , Nationalism and Imperialism
			2. Nationalism in India	The First World War, Khilafat and Non -
			2. Wationalism in mala	Cooperation , Differing Strands within
				the Movement , Towards Civil
				Disobedience , The Sense of Collective
				Belonging
9		December	3. The Making of a Global World	The Pre-modern world , The Nineteenth
				Century (1815-1914) , The Inter war
				Economy , Rebuilding a World Economy:
			A The Are of the best of the	The Post-War Era
			4. The Age of Industrialization	Before the Industrial Revolution , Hand
				Labour and Steam Power , Industrialization in the colonies ,
				Factories Come Up , The Peculiarities of
				Industrial Growth , Market for Goods
			5. Print Culture and the Modern	The First Printed Books , Print Comes to
			World	Europe , The Print Revolution and its
				Impact , The Reading Mania , The
				Nineteenth Century , India and the World
				of Print , Religious Reform and Public
				Debates , New Forms of Publication ,
10		lanuari	Revision	Print and Censorship
10		January February	Revision	
12		March	Revision	
1	Science	April	1.Chemical reactions and Equation	1. Chemical reactions and Equations:-
_	Julian	Zhiii	2. Shermear reactions and Equation	Chemical equation, Balanced chemical

			equation, implications of a balanced chemical equation, types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, neutralization, oxidation, and reduction.
		15. Our Environment	15. Our Environment: Eco-system, Environmental problems, Ozone depletion, waste production and their solutions. Biodegradable and non- biodegradable substance
		10.Light- Reflection and Refraction	10. Light- Reflection and Refraction:- Reflection of light by curved surfaces; Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length, mirror formula (Derivation not required), magnification.
2	Мау	10. Light- Reflection and Refraction	10. Light- Reflection and Refraction Laws of refraction, refractive index. Refraction of light by the spherical lens; Image formed by spherical lenses; Lens formula (Derivation not required); Magnification. Power of a lens. Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life.
		2. Acids, Bases, and salts	2. Acids, Bases, and salts:Their definitions in terms of furnishing of H+ and OH– ions, General properties, examples and uses, concept of pH scale (Definition relating to logarithm not required), importance of pH in everyday life; preparation and uses of Sodium Hydroxide, Bleaching powder, Baking soda, Washing soda and Plaster of Paris
		3. Metals and Non-metals	3. Metals and Non-metals: Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds; Corrosion and its prevention.
3	June	SUMMER VACCATION	
4	July	16. Management of natural resources	16. Management of natural resources: Conservation and judicious use of natural resources. Forest and wildlife; Coal and Petroleum conservation. Examples of people's participation for conservation of natural resources. Big dams: advantages

		11. The human eye and the colourful world4. Carbon and its compounds	and limitations; alternatives, if any. Water harvesting. Sustainability of natural resources. 11. The human eye and the colourful world: functioning of various parts of human eye, defects of vision and corrections, applications of various lenses and mirrors. 4. Carbon and its compounds: Covalent bonding in carbon compounds. Versatile nature of carbon. Homologous series.
5	August	4. Carbon and its compounds	4. Carbon and its compounds: Homologous series.
		7. Control and coordination 12. Electricity	7. Control and coordination: CNS and PNS, hormones, tropism, nastic movement, phytohormones, nervous system, positive and negative feedback. 12. Electricity: Electric current, potential difference and electric current. Ohm's law; Resistance, resistivity, Factors on which the resistance of a conductor depends. Series combination of resistors, parallel combination of resistors and its applications in daily life. Heating effect of electric current and its applications in daily life. Electric power, Interrelation between P, V, I and R
6	September	8. How do organisms reproduce? 13. Magnetic effects of electric current	8. How do organisms reproduce? Reproduction in animals and plants (asexual and sexual) reproductive healthneed and methods of family planning. Safe sex vs HIV / AIDS. Child bearing and women's health. 13. Magnetic effects of electric current: Magnetic field, field lines, field due to a
			current carrying conductor, field due to current carrying coil or solenoid; Force on current carrying conductor, Fleming's Left Hand Rule, Electric Motor, Electromagnetic induction. Induced potential difference, Induced current. Fleming's Right Hand Rule, Electric generator, Domestic electric circuits.
7	October	9. Heredity and evolution	9. Heredity and evolution: Heredity; Mendel's contribution - Laws for inheritance of traits: Sex determination:

8		November	14. Sources of energy 6. Life process	brief introduction, Evolution, evidences of evolution, speciation, and human Evolution. 14. Sources of energy: sun the ultimate source of energy, conventional source of energy, alternative or non conventional sources of energy. 6. Life process: Living Being'. Basic concept of nutrition,
				respiration, transport and excretion in plants and animals.
9		December	5.Periodic classification of elements	5.Periodic classification of elements: Need for classification, early attempts at classification of elements (Dobereiner's Triads, Newland's Law of Octaves, and Mendeleev's Periodic Table), Modern periodic table, gradation in properties, valency, atomic number, metallic and non-metallic properties.
10		January	Revision	
11		February	Revision	
12		March	Revision and Final examination	
	English			
1	First flight	April	chapter-1: A letter to God : Dust of Snow (poem) : Fire and Ice (poem)	About the author, Explanation of the chapter, keywords, question answer, exercise of the book.
	Foot prints without feet		Chapter-1: A Triumph of Surgery	
2.	First flight	May	chapter-2: Nelson Mandela- long walk to Freedom : A Tiger in the Zoo(poem)	About the author, Explanation of the chapter, keywords, question answer, exercise of the book. Definition of punctuation & Tenses, its
	Foot prints without feet		Chapter- 2: The Thief's story Chapter-3: The Midnight Visitor	types and exercise of the chapter. And steps of writing a letter and an application, unseen passage.
	Grammar		Punctuation, Tenses	
	Composition		Personal, business, official letters	
	Reading skill		Unseen passages	
3.		June		
4.	First flight	July	chapter-3: Two stories about Flying	Explanation of the chapter , about the

	Foot prints without feet Grammar Composition		: His first flight , black Aero plane : How to tell wind animals(poem) : The Ball poem Chapter -4: A Question of Trust Chapter-5: Footprints Without Feet Reported speech Writing skills (Description of function / events/ incidents)	author ,keywords , question answer, exercise of the book Definition of Direct speech and Indirect speech, its rules and exercise of the chapter. Format of writing (events ,incidents)
5.	First flight	August	chapter-4: From the Diary of Anne Frank : Amandal!(poem) : Animal(poem)	Explanation of the chapter, about the author, keywords, question answer, exercise of the book Definition of Modals & sentences, its types and exercise of the chapter.
	Foot prints without feet		Chapter-6 : The making of a Scientist	
	Grammar			
	Composition		Modals, Sentences	
			Dialogue completion	
6.	First flight	September	chapter-5 The Hundred Dresses part- 1 Chapter-6 The Hundred Dresses part- 2	Explanation of the chapter, about the author ,keywords , question answer, exercise of the book Definition of clauses & sentences, its
	Foot prints without feet		Chapter-7 The Necklace	types and worksheet of the chapter. And format of poster making
	Grammar			
	Composition		Clauses, Sentences	
			Poster making	
7.	First flight	October	chapter -7 : Glimpse of India i) A Baker From God	Explanation of the chapter, about the author ,keywords , question answer,

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			ii) Coorg iii) Tea from Assam	exercise of the book Definition of non-Finites, its types and
			The Tree (poem)	worksheet of the chapter. And format of
	Foot prints			making report
	without feet		Chapter-8: The Hack driver	
	Grammar		Non- Finites	
	Grannilal		NOII- FIIIILES	
	Composition		Reports (present and past	
8.	First flight	November	happening) chapter-8 : Mizbil the Otter	Explanation of the chapter, about the
ο.	i ii st iiigiit	Movember	: Fog (poem)	author ,keywords , question answer,
				exercise of the book
				Definition of preposition, its rules and
	Foot prints		Chapter-9: Bholi	worksheet of the chapter. And format of
	without feet			advertisement
	Grammar		Preposition	
	Composition		Advertisement	
9.				
	Eirct fliaht	December	chapter 0 - Madam Bidas the Bus	Evolunation of the chanter shout the
	First flight	December	chapter-9: Madam Rides the Bus : The Tale of Custard the	Explanation of the chapter, about the author ,keywords , question answer,
			Dragon (poem)	exercise of the book
			Chapter-10 :The Sermon at Benares	Definition of figure of speech , its types
			:For Anne Gregory	and worksheet of the chapter. And steps
			(poem)	of discussion and conversation
	Foot prints			
	without feet		Chapter-10 The Book that saved the	
			earth	
	Grammar			
			Figure of speech	
	Composition		Figure of speech	
	Composition			
			Conversation and discussion	
10.	First flight	January	chapter-11 : Proposal	Explanation of the chapter, about the
				author ,keywords , question answer, exercise of the book
				exercise of the book
	Foot prints			
	without feet		Revision	

	Grammar		Revision	
	Composition		Revision	
11		February	Revision	
12		March	Revision	