

Sree Ayyappa Public School

BOKARO STEEL CITY

SYLLABUS-2022-23

English

Std. X

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
April	22	First Flight (Lit) 1. A Letter to God (Prose) 1) Dust of Snow (Poem) 2) Fire and Ice (Poem) 2. Nelson Mandela: Long walk to freedom (Prose) 3. A Tiger in the Zoo (Poem) 4. Foot Prints (Supple): 1) A Triumph of Surgery	Grammar: Tenses Writing: Letter to the Editor. Make a list of words from the text L-2, First Flight and make pairs of nouns and verbs	GD: ON 'Does God Exist?' Speech delivery on Freedom fighters <ul style="list-style-type: none"> • Essay on Excess of anything is bad. 	Project Work Prepare a Project File on Nelson
May	05	Foot Prints; 2) The Thief's Story	Grammar: Modals Writing: Complaint letter	Make a mind map of the lesson 'The Thief's Story'.	Mandela: An Anti
June	13	First Flight: 3. Two stories about Flying (Prose) I. His First Flight II. Black Aeroplane 4. How to tell Wild Animals (Poem)	Grammar: ▪ Determiners Writing: Analytical paragraph based on chart, graph etc.	Anecdotes on Inspiring Personalities. Frame colour expression describing feelings, moods and emotions with suggested paraphrase	apartheid Activist & World Leader
July	25	First Flight: 5. The Ball Poem (Poem) 6. Amanda (Poem) Prose 4 From the Diary of Anne Frank Foot Prints: 3. The Midnight visitor 4. A Question of Trust.	Grammar: Sub verb Agreement Reported speech (commands and requests) Writing: Analytical paragraph.	Diary Entry G.D. /Debate on Clothes Can't Judge the character of a person.	

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
August	21	First Flight: Foot Prints: Foot Prints without Feet.	Grammar: Narration, contd... (statements and questions) Writing: Letter of Enquiry	G.D on Science is Boon or Bane	
September	11	7. Glimpses of India Part I & II	Grammar : Determiners Writing: Revision	Presentation on 3 places you would like to visit / JAM	
October	11	First Flight: 7. Glimpses of India Part III 8. The Trees (Poem)		Speech on conflict between Human and Nature.	
November	23	First Flight: 8. Mijbil the otter (Prose) 9. Fog (Poem) Prose 9. Madam Rides the Bus. Footprints: 6. The making of a Scientist 7. The Necklace	Grammar: Revision Writing: Revision	When you think glass is half always remember that the glass is half full. Express views on given quotation	Project Work Prepare a Project File comparing
December	16	First Flight: 10. The Tale of Custard the Dragon (Poem) 10. The Sermon at Benaras (Prose) Footprints:	Grammar : Revision Writing: Revision	Skit / Caricature Biography of Gautam Buddha	culture and tradition of Goa and Assam
January	22	First Flight: 11. For Anne Gregory 11. The proposal (Play) Footprints: 9. Bholi 10. The Book that saved the Earth	Grammar : Revision Writing: Revision Compose a poem on Mother earth taking help from Lesson 10 (Footprints without feet)	Make a resume to apply for admission in Std. XI in your own school.	
February	13	Practice of Sample Worksheets Revision for Annual Exam			

Sree Ayyappa Public School
BOKARO STEEL CITY

SYLLABUS-2022-23

Mathematics

Std. X

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
April	22	Real Numbers (10pds) Polynomials (06pds) Pair of Linear Equations in two variables (06 pds)	*Euclid's division lemma, fundamental theorem of Arithmetic proofs of irrationality of decimal representation of rational numbers in terms of terminating / Non Terminating recurring decimals. Zeros of a polynomial. Relationships between zeros and coefficient of quadratic polynomials, statement and simple problems of divisional algorithm for polynomials with real coefficients. Solution of Linear equation by graphical method, Consistency/Inconsistency Algebraic method, Algebraic conditions for number of solutions. Simple Situational Problems	Activity No. 1 Activity No. 2 Activity No. 3	*Prepare a Project on New Startup business and provision from Government
May	05	Pair of Linear Equations in two variables (05 Pds)	Word problems.		
June	11	Quadratic Equations (07 pds)	*Standard form of a quadratic equation, solution of equations by factorization, quadratic formula and completing square, Relationship between discriminant and nature of roots. Problems based on quad. equation related to day to day activities.	Activity No. 9	

		Constructions (04 Pds)	Division of a line segment in a given ratio (Internally), Tangents to a circle from a point outside it. Construction of a Δ similar to a given triangle.	Activity No. 10	
July	23	Arithmetic Progressions (10pds)	* Derivation of the n th term, sum of the first n terms of an AP and their application in solving daily life problems.	Activity No. 11	
August	12	Triangles (12pds)	*BPT Theorem, Criteria for similarity, Pythagoras Theorem, Ratio of areas of two similar triangles.	Activity No. 4	
	21	Coordinate Geometry (06Pds) Co Ordinate Geometry (08 Pds)	Distance formula, section formula * Section Formula & Area of a Triangle	Activity No. 8	
September	11	Revision for Half yearly exam	Revision for Half yearly exam		
October	24	Introduction to Trigonometry (12 pds)	*T-ratios of an acute angle of a right angle triangle. Preparing T-table along with proof. Complementary angles, T-identifies.	Activity No. 5	
		Probability (06pds)	Simple problems on finding the probability	Activity No. 6	

November		Circles (06pds) Height & Distance (07Pds)	Secant, Tangent, Normal and Theorems based on circle. Elevation / Depression, Simple problems on heights and distances.	Activity No. 12 Activity No. 13	
December	16	Statistics (06pds) Surface area & volumes (10pd)	*Mean, Median and mode of grouped data, cumulative frequency graph. Surface Area & volumes of combinations of solids (Cubes, cuboids, spheres, hemispheres, cylinders, cones and frustum of a cone). problems involving converting one type of metallic solid into another and other mixed problems.	Activity No. 14 Activity No. 15	
January		Areas Related to circles 13 Pds) 14	*Area of a circle, segment, combination of plane figures Combination of plane figures Final Exam Revision		
February	13	Revision for Final Exam			

Art Integrated Project Mathematics (Related with Goa and Jharkhand)

April	*Real Numbers	Activity No. 1: Euclid's Division Lemma
	*Pair of Linear	Activity No. 2 →Linear equations in two variables
June	*Triangles	Activity No. 5 →A Basic Proportionality theorem
July	*Probability	Activity No. 26 → Finding Probability
August	*Areas Related to Circle	Activity No. 08 →Angles in the same segment
October	*Constructions	Activity No. 14 →Lengths of Tangents to a Circle from an External Point.
November	* Arithmetic Progression	Activity No. 03 →Arithmetic Progression-2
	*Height and Distance	Activity No. 27 →Finding Heights.
December	* Surface Areas & Volumes	Activity No. 17 →Surface Area of A Cylinder Activity No. 22 →Lateral Surface Area of a Cone

Project of Maths (2022-23)

Term 1 (Any one)

Sl. No.	Topic
1)	Efficiency in Parking
2)	Geometry in Real Life
3)	Experiments on Probability

Term II (Any one)

Sl. No.	Topic
1)	Displacement & Rotation of a Geometrical Figure
2)	Frequency of letters / words in a language
3)	Making Quadrilateral
4)	Early History of Mathematics.

All Project of Maths (2022-23)

Sl. No.	Topic
01	Real Numbers
02	Pair of Linear Equation in two variables
03	Co-ordinate Geometry
04	Triangles
05	Area Related to Circles
07	Statistics
08	Probability

Week wise Activities (2022-23)

- 1) How to compute HCF of two positive integer a and b by using Euclid's Division Algorithm.
- 2) Graphically, how to check a given pair of Linear Equation in two variables is Consistent or Inconsistent?
- 3) Determine the number of zeros of a given Quadratic polynomial graphically.
- 4) By paper cutting/folding check the criteria for similarity of triangles.
- 5) Determine the measure of Central tendency of marks obtained by students of your class in Mathematics (Half Yearly Exam).
- 6) Verification of Pythagoras Theorem by paper cutting/folding method.

Sree Ayyappa Public School

BOKARO STEEL CITY

SYLLABUS-2022-23

Physics

Science

Std. X

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
April & May	11	Ch-10, Light Reflection and Refraction	Reflection of light by curved surfaces & Images formed by spherical mirror, centre of curvature, pole, focus, focal length, mirror formula, sign convention, magnification, refraction, laws of refraction, refractive index, refraction through lens. Image formation lens formula, power of lens, magnification.	Determination of the focal length of: i) Concave lens. ii) Convex lens (By obtaining the image of distant object)	Formation of multiple images by placing two or more mirrors at different angles.
June & July	23	Ch-11, The Human Eye and the Colourful World	Functioning of lens in Human Eye, Defects of vision and then correction, Glass Prism, dispersion of light, scattering of light, application in daily life. (excluding colour for the sun at sunrise and sunset)	*Tracing the path of a ray passing through a rectangular glass slab for different angle of incidence	
August	16	Revision Term 1 Half Yearly Exams.			
September	11				
October	22	Ch-12, Electricity	Electric current, electric potential and potential difference, circuit diagram, Ohm's law, Resistance, Resistivity, series and parallel combinations of resistors and its application in daily life.	→To study the dependence of potential difference across a resistor on the current passing through it and determine its resistance. Also plot graph between v & I	Quiz Board

November	05	Ch-12, Electricity	Heating Effect of current and its application in daily life. Electric power, Interrelation between P, V, I and R.	→Determination of the equivalent resistance of two resistors when connected in series.	
November	12	Ch-13, (Magnetic Effect of Current.)	Magnetic effect of current, Magnetic field, field lines, field due to a current carrying conductor, Right hand thumb side, field due to a current carrying solenoid or coil.	→Determination of the equivalent resistance if two resistors when connected in parallel. →To show the magnetic field lines by the help of bar magnet and is on power. Sprinkle on cardboard.	Working model of Electromagnet
December	24	Ch-13, Magnetic Effect of Current	→Force on current carrying conductor, Fleming's left Hand Rule. Direct current.	→Using a drawing board fix a white paper on it and place a bar magnet in centre of it and sprinkle some iron fillings uniformly around a bar magnet.	
December	21	Ch-14, Sources of Energy	Alternating current frequency of AC, Advantages of AC over DC, Domestic electric circuits.	*Prepare a Chart for Renewable and non renewable sources of energy.	
January	16	Revision Term 2 Pre Board Exams.			
February	22				

Chemistry

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
April	22	Ch-1, Chemical Reactions and Equations	Types of chemical reactions, Chemical Equations and balanced equations.	Performing and observing different types of chemical reactions.	(AIP) Preservative methods.
May + June	05 + 12	Ch-2, Acids, Bases and Salts.	Physical properties of Acids and Bases. Chemical properties of Acids and Bases pH and its application. Importance of Ph in everyday life.	To test the acids & bases by using various indicators. To observe the action of metals in salt solutions. Study the properties of acids and bases through various reactions.	Conduction of electric charge using acid or bases / salts.
July	24	Ch-3, Metals and non metals	Salts Physical properties of metals and non metals chemical properties of metals & non metals Metallurgy, corrosion & its prevention.	*To Prepare a Chart of reactivity series of metals	(AIP) Metallurgy
August	21	Revision	Revision		
September	11	Revision	Revision & Half Yearly examination		
October	11	Ch-4, Carbon and its compounds Ch-5, Periodic Classification of Elements	Versatile nature of carbon, Hydrocarbons, Isomerism, Functional Groups 7 Nomenclature	Preparation of soap in chemistry lab. Saponification Reaction	3D modal of allotropes of carbon or 3D
November	23		Chemical Reactions of Organic compounds, Ethanol, Ethanoic Acid, Soap and Detergents	To study the properties of Ethanol and Ethanoic Acid Study of comparative cleaning capacity of soap in soft and hard water	
December	16		Revision		
January	22	Revision			
February	13	Revision & Pre Board			

Biology

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
April	22	Ch-6, Life Process	Nutrition→ *Modes of nutrition *Nutrition in plants *Photosynthesis *Nutrition in lower animals (Amoeba, paramecium) Nutrition in human beings	-Variegated leaf before & after starch test -Chlorophyll is necessary for photosynthesis -CO ₂ is necessary for photosynthesis -Light is necessary for photosynthesis -Experimental set-up with KOH & without KOH in plants. -Saliva Test in human being.	Preparing a temporary mount of leaf peel to show stomata
May	05		-Respiration *Types of respiration *Exchange of gases in plants, lower animals, aquatic & terrestrial organism *Human respiratory system	- CO ₂ is produced during respiration.	
June	12		-transportation *transportation in human being- blood, heart *Human heart *Exchange and transport of gases by blood *transportation in plants *Role of xylem and phloem -Excretion *Excretory system in human beings *Structure of a nephron Osmoregulations Artificial kidney *excretion in plants		AIP (Nutrition + Hormones)
July	12	Control and Co-ordination	-Animal-Nervous system -reflex Action -Human Brain -co-ordination in plants -Immediate response to stimulus.		

August	21	Control and Co-ordination	Movement due to growth -Hormones in Animals Hormones in plants		
September	11		Revision + Half yearly		
October	11	Ch-8, How do Organism Reproduce	-Copying of DNA Importance of variation -Asexual reproduction *Fission *Fragmentation *Regeneration *Budding *Vegetative Propagation *Spore formation *Tissue culture -Sexual Reproduction *Sexual reproduction in flowering plants *Sexual Reproduction in human beings Menstruation *Reproductive health	Observe permanent slide of Amoeba	
November	15	Ch-9, Heredity	-Accumulation of variation during reproduction -Heredity -Rules for the inheritance of Traits→Mendel's contribution -Sex determination		

November + December	08	Ch-15, Our Environment	<ul style="list-style-type: none"> -Ecosystem -Food chain and food web -Human activities effect the environment -Ozone layer & how it is getting depleted. 	<ul style="list-style-type: none"> -Make Newspaper Report about pesticides levels in readymade food items. -Discussing about the 4T's rule 	
	05		<ul style="list-style-type: none"> -Managing the Garbage we produce -Biodegradable and non biodegradable substances. 		
December	11	Ch-16, Management of Natural Resources (Internal Assessment)	<ul style="list-style-type: none"> -Conservation and judicious use of natural resources -Forest and wild life -Sustainable Management -Water for all Dams Water Harvesting -Coal and Petroleum --An overview of natural resource management 	<ul style="list-style-type: none"> -By using indicator check the pH of the water supplied to your house. -Study the rainfall patters in India from an atlas. 	AIP (Environment + Natural Resources)
January & February	Revision for Annual Examination				

Sree Ayyappa Public School

BOKARO STEEL CITY

SYLLABUS-2022-23

Social Science

Std. X

- 1) India and contemporary World II (History) by NCRT
- 2) Contemporary India II (Geography) by NCRT
- 3) Democratic Politics II (Political Science) by NCRT
- 4) Understanding Economic Development (Economics) by NCRT
- 5) Reference Books: S.Chand for Social Science. All in one SST by Arihant.

Month	No. of working days	Sub.	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
April	23	H-1	Rise of Nationalism in Europe	The Making of Nationalism in Europe The Age of Revolutions 1830-1848		
May	05	G-1	Resources and Development	Types of Resources Development of Resources Resource Planning in India Land Utilization	MIND MAP The Age of Revolution 1830-1848 Flow Chart-Types of Resources & Classification of resources. Collect the data of current land use pattern in India. Pie-Chart showing Land Use pattern in India	Sustainable Development (Individual Project)
June	13	C-1 G-2	Power Sharing Forest and Wildlife	Case Study of Belgium and Sri Lanka Why Power Sharing is desirable.	Debate- Compare the different ways in which Belgians and Srilankan's have problem of diversity. Prepare MCQ for Quiz (G.D) (Critical thinking)	Project: 1). Judicious Utilization and conservation of resources
July	25	H-1 H-2 G-3 G-4 E-1	Rise of Nationalism in Europe (continued) Nationalism in INDIA Water Resources Agriculture Development	The making of Germany and Italian State Visualizing the Nation, Nationalism & Imperialism Impact on globalization of Agriculture Different Persons have different developmental goals.	Concept- Map The making of Germany & Italian State G.D. on Russia & Ukraine War Data Collection of Major crops in India Chart-Work Group Activity- Goals for girls and boys (Life Goals) (Identify the differences)	2) Reasons of Land degradation in India and how we can stop land degradable in India, especially Jharkhand.

Month	No. of working days	Sub.	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
August	21	PS-2 Eco C-4	Federalism. Sectors of Indian Economy Gender, Religious & Caste.	Decentralization in India Comparing three Sectors Primary, Secondary and Tertiary. Organized and unorganized Sectors	Election of Municipal Corporation in Chas Role of IT sector in Indian Economy G.D.P, Employment opportunities etc. Collect data Individual activity.	Project Group wise Individual Project Workers are exploited in the unorganized sectors (Collect Information from the sector)
September	11	H-3	Map Practice Work + Revision The Age of Industrialisation.		Outline map of India Location, identification, labeling etc..	
October	11	H-2 C-6 G-5 H-4	Nationalism in India Political Parties Minerals & Energy Resources. Print culture & modern world	H-2, Meaning and causes of Nationalism in India C-6, Regional Parties *Dominance of Regional Party after 1990s)	*H-2, Class Debate C-6, Collect information about ten regional parties (Symbol, objectives etc.) Political and social awareness, skill development)	
November	23	H-2 E-3 G-6	Nationalism in India Money & Credit Manufacturing Industries	H-2, Ist World War, Khilafat & Non cooperation movements. E-3, Self Help Groups	H-2, Collect the pictures of leaders of Khilafat Committee A Project work on S.H.G In your localities Analytical thinking / skill development, logical thinking.	
December	16	G-7 C-7	Lifelines of National Economy Outcomes of Democracy	G-7 Tourism as a Trade C-7 Objectives & Merits	*'Tourism promote National Integrity & Economy' Awareness about Global & Indian Culture	
January	14	E-4 E-5	Globalization and the Indian Economy CONSUMER RIGHTS (P.Work)	E-4 World Trade Organization (WTO)	Impact of WTO on developing countries Awareness and skill development	
February	13		Revision/Map Practice // Doubt Clearance	Assignment based on Map Practice Quiz, Oral and Written Class Test		

**श्री अय्यप्पा पब्लिक स्कूल
बोकारो इस्पात नगर**

पाठ्यक्रम 2022-2023

विषय—हिन्दी

वर्ग—दशम

निर्धारित पुस्तकें:— 1. क्षितिज भाग-2

2. कृतिका भाग-2

3. हिन्दी व्याकरण – रचना सागर पब्लिकेशंस

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
अप्रैल-2022	22	क्षितिज – पाठ – 01 – सूरदास के पद	कृष्ण के प्रति गोपियों का प्रेम	1. सूरदास की अन्य रचनाओं की सूची तैयार करें।	1. आधुनिक शिक्षा पद्धति एवं प्रचीन शिक्षा पद्धति का तुलनात्मक अध्ययन।
		पाठ – 10 – नेताजी का चश्मा	स्वतंत्रता सेनानियों का महत्व	2. स्वतंत्रता सेनानियों के नामों का संकलन एवं उनसे जुड़ी विशेष घटना का वर्णन	
		व्याकरण – अपठित गद्यांश वाक्य भेद	वाक्यों के भेद एवं रूपांतरण		
मई-2022	05	व्याकरण – वाक्य भेद, अपठित काव्यांश	वाक्य रूपांतरण	तुलसीदास द्वारा रचित 'दोहावली' के किन्हीं चार दोहों को लिखकर कक्षा में सस्वर वाचन करें।	
		क्षितिज – राम – लक्ष्मण – परशुराम के संवाद	राम एवं लक्ष्मण की विशेषताओं का वर्णन	उद्धव के घमंड को तोड़ना	
जून –2022	13	क्षितिज 02. राम – लक्ष्मण – परशुराम संवाद	लक्ष्मण एवं परशुराम के मध्य संवाद	1. क्रोध के दुष्परिणाम लिखें। 2. रामायण के विभिन्न कांडों (खंडों) की सूची तैयार करें।	
		11. बालगोबन भगत			
		व्याकरण – वाच्य	वाच्य भेद एवं वाच्य परिवर्तन	3. ग्रामीण परिवेश में विधवा पुनर्विवाह के प्रति सोच पर अनुच्छेद लिखें।	

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
जुलाई-2022	25	क्षितिज 04. आत्मकथा	कवि की आत्मकथा का वर्णन	1. काव्य के पदों का सस्वर वाचन करे।	1. "21 वीं सदी में विद्यालयों एवं
		कृतिका 01. माता का अँचल क्षितिज-12 लखनवी अंदाज	ग्रामीण परिवेश एवं माता-पिता के प्रति बच्चों का प्रेम	1. ग्रामीण एवं शहरी परिवेश का तुलनात्मक परिचय दें।	शिक्षकों से हमारे हमारी अपेक्षाएँ।" इस विषय पर एक परियोजना तैयार करें।
		व्याकरण- वाच्य	वाच्य-परिवर्तन, लखनऊ के नबाबों की दिखावटी जीवन शैली की चर्चा		
अगस्त-2022	21	(व्याकरण)-पद-परिचय,	तिब्बत की खूबसूरती एवं वहाँ के	1. अपने पसंदीदा पर्यटक	
		अलंकार, एवं उसके भेद	खूबसूरत इलाकों का वर्णन।	स्थलों का वर्णन करें।	
		कृतिका-03 साना-साना हाथ जोड़ि			
		क्षितिज-आत्मकथा			
सितम्बर-2022	11	क्षितिज- पुनरावृत्ति		1. विभिन्न अलंकारों वाले काव्यांशों का वाचन एवं लेखन	1.भारत के नबाबों की सूची चित्र सहित तैयार करें।
		कृतिका -पुनरावृत्ति			
		व्याकरण-अलंकार एवं पुनरावृत्ति	अलंकार के भेद एवं उनकी पहचान		
		अर्धवार्षिक परीक्षा			

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
अक्टूबर-2022	11	क्षितिज-03. उत्साह, अट नहीं रही है।	वर्षा का महत्व, फागुन माह की	1. प्रकृति से संबंधित जानकारी इकट्ठी करना।	1. स्वतंत्रता प्राप्ति में महत्वपूर्ण भूमिका निभाने वाले रचनाकारों की सूची तैयार करें।
		14. एक कहानी यह भी	सुंदरता का वर्णन, लेखिका की आत्मकथा एवं संघर्ष।	2. लेखिका की तरह अन्य लेखक/लेखिकाओं, कवि/कवयित्रियों की स्वतंत्रता	
		व्याकरण संदेश-लेखन	संदेशों के प्रकार।	प्राप्ति में हिस्सेदारी को बताएँ	
नवम्बर-2022	23	क्षितिज-06. यह दंतुरित मुस्कान तथा 'फसल'	बच्चों के नए दाँतों और उसकी मोहिन मुस्कान का पिता पर	1. उस्ताद बिस्मिल्ला खाँ के जीवन पर एक अनुच्छेद लिखें	1. ऋतुओं के अनुसार खेती किए जाने वाले फसलों की सूची चित्र सहित तैयार करें
		9. संगतकर गायक का साथ देनेवाले संगतकार की चर्चा।	प्रभाव/फसलों को उगाने में सहायक चीजें का वर्णन।	2. मुख्य गायकों को संगतकारों की आवश्यकता	
			उस्ताद बिस्मिल्ला खाँ की रोचक जीवन शैली एवं शहनाई वादक बनने तक के सफर की चर्चा	क्यों होती है? इस पर एक लेख लिखें।	2. बिस्मिल्ला खाँ को किन-किन उपाधियों से सम्मानित किया गया था,
					इसकी सूची तैयार करें
		(व्याकरण) -पत्रलेखन	अनौपचारिक पत्रों की जानकारी।		

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
दिसम्बर-2022	16	कृतिका-05 मैं क्यों लिखता हूँ	रचनाकार की भीतरी विवशता एवं उससे उसे लेखन के लिए	1. अपने जीवन की किसी घटना का लिखकर वर्णन करें।	
जनवरी-2023	22	क्षितिज-17 संस्कृति, सभ्यता एवं संस्कृति के मध्य के अंतर का वर्णन।	मिलेन वाली प्रेरणा का वर्णन।	1. एक स्वच्छ एवं सुंदर वायोडाटा तैयार करें।	
		व्याकरण-स्ववृत्त, ई मेल लेखन			
		कृतिका - पुनरावृत्ति			
फरवरी-2023	13	क्षितिज- पुनरावृत्ति		1. मौखिक प्रश्नोत्तर एवं लिखित प्रश्नोत्तर	
		कृतिका - पुनरावृत्ति			
		व्याकरण - पुनरावृत्ति			
		वार्षिक परीक्षा			
मार्च-2023	23	वार्षिक परीक्षा			

श्री अय्यप्पा पब्लिक स्कूल
बोकारो इस्पात नगर
पाठ्यक्रम 2022-2023
विषय – संस्कृत

वर्ग – दशम

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
अप्रैल-2022	23	(शेमुषी-द्वितीयो भागः) पाठ्यपुस्तकम्			
		1. शुचिपर्यावरणम्		पाठ में प्रयुक्त समासिक पदों को चुनकर समासिक विग्रह सहित समास का नाम लिखें।	
		2. बुद्धिर्बलवती सदा		पाठ में प्रयुक्त लङ्लकार के पाँच वाक्य लिखकर उन्हें लट् लकार में परिवर्तित करें।	
		संस्कृत व्याकरण			
		1. सन्धि (संस्कृत व्याकरण)		सन्धि वृक्ष तैयार करें।	
		क. व्यंजन सन्धि	प्रथमवर्णस्य, तृतीय वर्णे परिवर्तनम्		
		ख. विसर्ग सन्धि	विसर्गस्य स्थाने, श्, ष्, स्, रत्वं		
		2. अपठित गधांश (संख्या)		गधांश के लिए प्रश्न तैयार करें। (सामूहिक कार्य)	
		3. पत्रलेखनम्		पत्र में प्रयुक्त कठिन शब्दों के अर्थों की सूची तैयार करें।	
		4. समास (संस्कृत व्याकरण)	बहुव्रीहिः समासः	समास एवं उनके उदाहरणों का वृक्ष तैयार करें।	

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
मई-2022	05	4. समास (संस्कृत व्याकरण)	तत्पुरुषः		1. वन में स्थित गुरुकुल का चित्र बनाकर उसके विषय में 5 वाक्य संस्कृत में लिखें।
जून-2022	12	(शेमुषी-द्वितीयो भागः) पाठ्यपुस्तकम्			
		8. व्यायामः सर्वदा पश्यः		व्यायाम के महत्व पर 5 वाक्य संस्कृत भाषा में लिखें।	
		5. चित्रवर्णनम् (संस्कृत व्याकरण)		चित्र बनाकर चित्र के विषय में 5 वाक्य संस्कृत में लिखें।	
		6. प्रत्यय (संस्कृत व्याकरण)		प्रत्यय पुष्प तैयार करें।	
		क. तिद्धत प्रत्यय	मतुप्, ठक		
		ख. स्त्री प्रत्यय	टाप्		
		7. संस्कृत भाषायाम् अनुवादः	लट्, लड़, लृट्, लोट्, विधिलिङ्	हिन्दी भाषा में 10 वाक्य लिखकर संस्कृतभाषा में अनुवाद करें।	
जुलाई-2022	25	(शेमुषी-द्वितीयो भागः) पाठ्यपुस्तकम्		पाठ में प्रयुक्त विशेष्य-विशेषण को चुनकर लिखें।	2. रक्षाबन्धन पर्व का चित्र बनाकर संस्कृत में 5 वाक्य लिखें।
		4. शिशुलालनम्		संस्कृत भाषा के महत्व पर संस्कृत में वार्तालाप करें। (वार्तालाप)	

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
		5. जननी तुल्यवत्सला		इन्द्र के पर्यायवाची शब्दों को लिखें।	
		8. वाच्य (संस्कृत व्याकरण)	कर्तृ, कर्म भाव	वाच्य चार्ट तैयार करें। (सामुहिक कार्य)	
		9. समय	स्पाद, सार्ध, पादोन	5 घड़ी का चित्र बनाकर संस्कृत में समय लिखें।	
		10. अव्यय पदानि	उच्चैः, च श्वः ह्यः, अद्य, अत्र-तत्र		
			यत्र-कुत्र, इदानीम्, यदा, तदा	अवयवों के अर्थ लिखकर वाक्य निर्माण करें।	
अगस्त-2022	21	(शेमुषी-द्वितीयो भागः) पाठ्यपुस्तकम्			
		6. सुभाषितानि		पाठ में प्रयुक्त तृतीया एवं षष्ठी विभक्ति के पदों से 5-5 वाक्य बनाएँ।	
		7. सौहार्द प्रकृतेः शोभा		संस्कृत भाषा में प्रकृति का वर्णन करें। (5 वाक्य)	

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
		11. अशुद्धि-संशोधनम् (संस्कृत व्याकरण)	वचन-लिङ्ग पुरुष	10 वाक्यों का लकार संशोधन चार्ट	
			लकार- विभक्तिदृष्ट्या संशोधनम्	तैयार करें।	
सितंबर-2022		पुनरावृत्ति +	अर्द्धवार्षिक परीक्षा		
		(शेमुषी-द्वितीयो भागः)+ (पाठ- 1 - 6)	अर्द्धवार्षिक परीक्षा		
		संस्कृत व्याकरण (अर्द्धवार्षिक पाठ्यक्रम)			
अक्टूबर-2022	12	(शेमुषी-द्वितीयो भागः) (पाठ्यपुस्तकम्)			
		8. विचित्र साक्षी		पाठ में प्रयुक्त ल्यप एवं तुमुन प्रत्यय से 5-5 वाक्यों का निर्माण करे।	छठ पर्व का चित्र बनाकर उसके
				पाठ में प्रयुक्त समासिक पदों को चुनकर उनका विग्रह करें एवं समास का नाम भी लिखें।	विषय में 5 वाक्य संस्कृत भाषा में लिखें।

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
		1. सन्धि (संस्कृत व्याकरण)	उत्वं	उदाहरण सहित सन्धि वृक्ष तैयार करें।	
		क. व्यंजन सन्धि	प्रथमवर्णस्य पंचमवर्णे परिवर्तनम्	संस्कृत भाषा में एक प्रेरणादायक	
		ख. विसर्ग सन्धि	विसर्ग लोपः	कहानी लिखें। (पत्रिका के लिए)	
				खेल की सामग्रियों को एकत्र कर	प्रदर्शनी के लिए
		2. अपठित गद्यांशः (संस्कृत व्याकरण)		संस्कृत भाषा में उनका नाम लिखें।	
				गद्यांश लिखकर उसपर आधारित प्रश्न निर्माण करें।	
नवंबर-2022	24	(शेमुषी-द्वितीयो भागः) (पाठ्यपुस्तक)			
		10. भूकम्पविभीषिका		पाठ में प्रयुक्त 15 सन्धि युक्त पदों को चुनकर सन्धि विच्छेद करें।	
				लट् लकार के 10 क्रिया पदों का चयन कर उससे वाक्य निर्माण करें।	
		11. प्राणेभ्योऽपि प्रियः सुहृद			
		4. समास (संख्या)	अव्ययीभावः (अनु, उप, सह, निर, प्रति, यथा)	उदाहरण सहित समास गुब्बारा बनाएँ।	
			द्वन्द्वः समासः		

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
		6. प्रत्यय (संस्कृत व्याकरण)		उदाहरण सहित प्रत्यय वृक्ष बनाएँ।	
		क. तद्धित प्रत्यय	– त्व, तल्	विचित्र साक्षी पाठ के आधार पर →	नाटक
		ख. स्त्री प्रत्यय	– डीप्		
		8. वाच्य	कर्तृ-कर्म-क्रिया	वाच्य चार्ट तैयार करें। (सामुहिक कार्य)	
		9. समयः (संस्कृत व्याकरण)	सपाद्-सार्ध-पादोन्	5 घड़ियों का चित्र बनाकर संस्कृत भाषा में समय लिखें।	
		10. अव्ययपदानि (संस्कृत व्याकरण)	कदा: सहसा, वृथा, शनैः, अपि कुतः	अव्ययों का अर्थ लिखकर वाक्य निर्माण करें।	
			इतस्ततः, यदि-तहि सम्प्रति		काश्मीर का प्राकृतिक दृश्य
दिसंबर-2022	19	(शेमुषी-द्वितीयो भागः) (पाठ्यपुस्तक)		पाठ में प्रयुक्त 10 अव्ययों को चुनकर उनसे वाक्य निर्माण करें।	बनाकर उसके विषय में 5 वाक्य संस्कृत में लिखें।
		12. अन्योक्तयः			
		11. अशुद्धिसंशोधनम्	वचन-लिङ्ग-पुरुष -लकार-विभक्ति दृष्ट्या संशोधनम्	10 वाक्यों का पुरुष संशोधन चार्ट तैयार करें।	

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
		3. पत्र लेखनम् (संस्कृत व्याकरण)	औपचारिक, पत्र, अनौपचारिक पत्र	अध्यापक से 2 दिन की छुट्टी के लिए पत्र लिखें।	
		5. चित्रवर्णनम्		दुर्गापूजा के उत्सव का चित्र बनाकर उसके विषय में 5 वाक्य संस्कृत में लिखें।	
		7. संस्कृतभाषायाम् अनुवादः	लट्, लङ्, लृट्, लोट्, विधिलिङ्	संस्कृत भाषा में 10 वाक्य लिखकर उसका हिन्दी भाषा में अनुवाद करें।	
जनवरी-2023	22	पुनरावृत्ति	उ		
		शेमुषी-द्वितीयो भागः			
		संस्कृत व्याकरणम्			

Sree Ayyappa Public School

BOKARO STEEL CITY

SYLLABUS-2022-23

Information Technology (IT)

Std. X

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
April + May	22 + 5	Part A Unit 1 Communication Skills Unit 2 Self Management Skills Unit 3 Information and communication Technology skills	*Ways of communication *Elements of communication *Verbal and non verbal methods of communication. *English language skills *sentence formation. *Meaning and importance of stress management *Techniques *Self confidence & positive thinking *Personal hygiene and self grooming *Role of ICT *Computer Basics, Input, Output & Storage system *Basic computer operations *Internet Services and applications	●Role play on communication ●Identifying elements of the communication cycle ●Practice on Public Speaking Role play of avoiding stressful situation ●Create a folder ●Making a Chart	Comparing methods of communication. Do presentation on that. Presentation on computer security and privacy
June	13	Part B Unit 1 Digital Documentation (Advanced)	*Create and apply styles in the document. *Insert and use images in document *create and use template *Create and customize table of contents. *Implement mail merge	●Create drawing using shapes ●Applying properties to shapes ●Positioning the image ●Wrapping Text with images ●Create a main document ●Demonstrate to print the label using mail-merge ●Create data source ●Merge the data source with main document ●Edit document ●Print the letter and address label	Create and apply styles in digital documentation. Implement the mail merge

Sree Ayyappa Public School

BOKARO STEEL CITY

SYLLABUS-2022-23

Physical Education

Std. X

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
April	22	*Test for measuring different fitness components *Basket Ball	Strength →Speed →Speed →Flexibility →Endurance →Agility →measurements →rules and Regulations →Specific and General warming up →Skills	-Dribbling -Shooting -Passing -Defence	Prepare a menu for Healthy meals *Breakfast *Lunch *Dinner
May & June	05 + 12	*Play *Chess *Physical activity & Gender	→Meaning and concept →Characteristic play →Benefits of play →Regional play activities →Rules and Regulations. →Skills →Anatomical difference between Gender →physical activity and women →Weight training for women	-How to move various chess pieces. -How to note down the moves of chess	Do exercise dally at home like jumping skipping and any other exercise Neck movement shoulder movement Trunk movement Ankle movement
July	24	*Stress and coping *Football	→Measurement and cause →relaxation and Training →Coping strategies →Measurement →Rules and Regulations →Warming up General and Specific →Skills	-Kicking -ball control -passing -tackling	Project on any of the major games and one Traditional Game

August	21	*Physical Activity and Quality of Life *Volleyball	→Meaning and concept →Benefits of physical activities to promote quality of life. →Development of Ethical values through physical Activities. →Measurements →Rules and Regulations →Warming up General and Specific →Skills	-Service -Passing -Attack -Block	
September	11	*Physical Basis of Physical Education	→Meaning and Important →Measurement of Blood Pressure, Pulse rate an Respiratory rate. →Warming up and cooling down	Half Yearly Exam	Communicable and Non Communicable Diseases
October	11	*Psychological Basis of Physical Education. Kho- Kho	→Meaning and Importance →Habit →Emotions →Measurements →Rules and Regulations →General and specific Warming up →Skills	-Running -Chasing	
November + December	23 + 11	*Career Avenues in the field of Physical Education *Safety and Injuries *Athletics	→Career Avenue in Educational Institutions, Media, Fitness, Industries, Educational Qualification in Physical Education →Leading Institution of Physical Education →Self Safety →Safety of Equipment →Prevention of Sports Injuries →Sprint Race Middle distance race Throwing events Jumping events Rules and Regulations		
January + February	22 + 13		Revision of Various Fitness Test and Pre Board		

Sree Ayyappa Public School
SYLLABUS-2022-23

Art & Craft

Std. X

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
April	22	*Elements of Visual Art, Make a painting made by great Artist Contd..	Jemini Roy	Landscape with oil pastels Bind the loose sheets together into a sketch book	
May	05		Amrita Shergil		
June	12	Still Life	Draw a Still life (With oil pastels)	Composition with water colour	
July	25	*Experiment with different methods	Landscape and pencil shading	Draw & Shade still life with pencil 2B, 4B & 6B	
August	21	*Madhubani painting	*Madhubani painting on cloth or paper	Madhubani painting	Madhubani painting
September	11	Theory Revision	MCQ	Madhubani painting	Assessment I
October	12	* Photo montage	Animals Photo montage	Montage Create a story script of your own	
November	24	*Book Cover Design Logo Designing	Different types of Logo designing	Book Cover, Collage making.	
December	19	*Portfolio	3 Still life and 3 compositions	Pencil Shading Still life, mosaic work.	
January	22	*Legendary Artists	Rabindranath Tagore Leonardo da Vinci One contemporary Artists	Biography on legendary artists.	Portfolio 3 Still life and 3 water colour painting
February	14	Theory & Revision Assessment II	MCQ	G.D. question & answers	

Sree Ayyappa Public School

BOKARO STEEL CITY

SYLLABUS-2022-23

MUSIC

Std. X

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
April	23	Ganesh vandana Knowledge of terms (Sangeet- Theory)	Sangeet, Naad, Swar, Shudh, Komal , Teevra Saptak, Mandra, Madhya, Taar	National Anthem	
May	05	Tabla Revision	Ten Verna of Tabla Revision		
June	13	Theory, Notation	Basic Knowledge of rotation system		
July	25	Definition, Indian Music	Aaroh, Avrooh, Raaga, Laya, Mantra, Taal . A Brief introduction of Indian Music	Songs for community singing (Five Folk and Tribble songs of different regions)	
August	21	Introduction of Raaga Song	Yaman, Kafi, Bhairav Patriotic song Krishna and Rakhi Geet	Five Devotional song	
September	22	Revision	Revision		
October	12	Durga puja song, Sloga, Alankar	Alankar in Yaman and Kafi, Durga puja song.	Tuning and Playing any one of the following Instruments. (Sitar, Sarod, Violin, Flute, Veena and Guitar)	

November	24	Taal Prichay, Theory Deepawali song	Teental, Kaharwa and Dadra Biography of famous Musicians, Deepawali songs.	Tabla accompaniment	The following five Taalas and Thekas (Kaharwa, Dadra, Teental and Jhaptaal)
December	19	Beat Practice song	Indian and Western Beat Knowledge (style), New-Year and Christmas song.	To create proper sense of swaras and layas through Taalbadh Alankars	
January	22	Definition notes on Musical Instruments	Aavartan-sam Taal Khali Short notes on at least four.		
February		Revision	Revision		

Sree Ayyappa Public School

BOKARO STEEL CITY

SYLLABUS-2022-23

DANCE

Std. X

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
April	23	*Introduction of Abhinaya *A brief history of Indian Dance	What is abhinaya, Angik, Vachik, Aharya, Satwik definitions	Angikam slogam dance, Revision of previous Bharatnatyam classes.	
May	05	*Famous dancers	Knowledge about famous dancers	Paste the pictures of famous dancers	
June	12	*Greeva Bhed, Shiro Bhed, Drushti Bhed	Complete notes of Greeva Bhed, Shiro bhed & Drushti Bhed	Greeva Bhed, Shiro bhed & Drushti Bhed Practical work	
July	25	* Allaripu	Importance of Adavus & Knowledge about allaripu	Adavus Practice & Allaripu performance.	
August	21	*Navras & Hand Gestures.	Knowledge about Navras & Hand Gestures.	Composition of Navras.	
September	11	*Guruvandana	Revision	Guruvandana dance	Assessment I
October	12	*Devi Stuti	Devi Stuti lyrics and meaning	Devi stuti dance	
November	24	Introduction of Kathak	History of Kathak	Bhumi pranamam, teen taal, tatkar, tora, tukara.	
December	19	Kathak taal & laya	Knowledge about Aamad, tukra, teehai, Salami, bol & taal	Aamad, tukara, teehai, Salami Practice	
January	22	Music instruments	Introduction of music instruments & usage of classical dance	Dance choreography based on instrumental music	
February	14	Folk Dance & Dance Makeup	Knowledge of folk dances, benefits of dance.	Difference between Folk dance & Classical Dance, Lesson on dance makeup	
March		Revision			