

Sree Ayyappa Public School

BOKARO STEEL CITY

SYLLABUS-2022-23

Class : VIII
 Subject : ENGLISH
 Prescribed Books : The English Connection (Course book)
 The English Connection (Literature)

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
April	22	(MCB) Unit 1, Sec – A: How I Taught My Grandmother to Read. (Prose) Literature: Adolf (Prose)	Grammar: Parts of Speech Writing: Notice writing	Read any short Story of Sudha Murthy	Art Integrated Project Group 1 Make a brochure on life history and achievements of R.N. Tagore and Sudha Murthy.
May	05	Sec - B: Kabuliwala (Graphic story)	Writing: Story writing		
June	13	Sec- C: Once upon a time (Poem) Lit.: Daffodils (Poem)	Grammar: Tenses Writing: Diary Entry	Show your Art/Creativity on chart paper depicting beauty of nature.	Group 2 Make a puzzle chart on Tenses, Adjectives and New words.
July	25	Unit 2, Sec-B: I Never Forget a Face. (Prose) Lit.: In Celebration of Being Alive. (prose)	Grammar: Determiners, Preposition Writing: Informal Letter	How positive Thinking Brings Happiness in Life- Open Discussion	
August	21	Unit 3, Sec- B: Unbreakable Mary Com (Prose) Sec – C: Nine Gold Medals (Poem)	Grammar: Voice Writing: Speech writing	Like Sudha Chandran there are many people who have become an inspiration for others. Write their achievements and paste pictures.	Group 3 Imagine yourself as the Senior Scientist of ISRO, Mission Mangalyaan. Dramatize the launching scene of the mission along with your team members and also write about The Mars Orbiter Mission – Mangalyaan.
September	11	Revision	Half Yearly Exam		
October	11	Unit 4, Sec-B: The Snake and the Mirror. (Prose)	Writing: Article writing		
November	23	Unit 5, Sec- A: Zlata’s Diary (Prose) Sec- C: After Blenheim (Poem) Lit.: The Open Window (Prose)	Grammar: Subject verb agreement Writing: Report Writing	Decide in your group and choose any leader who led a peaceful resistance and research his contribution to World peace and deliver his speech.	

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21st Century Skills)
December	16	Unit 6, Sec- A: Mother's Voice . (Prose) Sec- C: Off to Space Tomorrow Morning .(Poem)	Grammar : Narration Writing: Formal Letter	Write a letter to the Chairman of ISRO appreciating India's Satellite Technology.	Group 4 Prepare a PPT presentation on life journey of Mary Kom.
January	22	Unit 7, Sec- C : Travel (Poem) Lit.: If I were you. (Drama) Lit. : Night of the Scorpion . (Poem)	Grammar: Non Infinitive Verb/Finite verb Narration (Contd....)	Visit some places of Bokaro Steel City and prepare a report on that.	Group 5 Dramatise any scene from the freedom struggle through a puppet show. Elaborate that incident. (For Half Yearly)
February	13	Revision for Annual Exam.			

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SYLLABUS-2022-23

Mathematics

Prescribed Book

- Mathematics for Class VIII (NCRT)
- Mathematics Lab Manual (Convent Publication)
- M.L. Aggarwal (Avichal Publication) Reference Book

Std. VIII

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
April	22	Ch-1, Rational Numbers Ch-2, Linear Equation in one variable	*Introduction *Properties of Rational Nos. *Representation of Rational Nos. on number line *Rational numbers between two Rational numbers *Introduction solving linear expressions *Applications of linear equations *Solving equations with variables on both sides *Some more applications and Exercises *Reducing equations to simpler form. *Equation reducible to linear form	*develop few linear equations which are reducible into linear form	*Prepare Life history of any Indian Mathematician & his/her contribution in the field of mathematics
May	05	Ch-3, Understanding Quadrilaterals	*Introduction *Angle sum properties *Sum of exterior angles of a polygon	Activity 3 Activity 4	
June	12	Ch-3, Understanding Quadrilaterals contd... Ch-4, Practical Geometry	*Kinds of quadrilaterals *Some special parallelogram *Introduction, construction of quadrilaterals, when two diagonals & three sides are given. *When two adjacent sides & three angles are known *When three sides and two included angles are given *Some special cases		

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
July	24	Ch-5, Data Handling Ch-6, Square & Square Roots	<ul style="list-style-type: none"> *Introduction *Bar graph, double bar graph *Bars with a difference, histogram *Circle graph or pie chart, chances & probability *Introduction, properties of square nos. *Some more interesting patterns & exercise *Finding square roots through repeated subtraction *Finding squares, Pythagorean triplets, other patterns ins square *Finding square roots through prime factorization *Finding square root by division method *Square root of decimals *Estimating square roots 	<ul style="list-style-type: none"> *Collect the information like marks/runs scored in cricket games/weights, etc. and prepares a frequency distribution table. *Collect different patterns of numbers and palindrome numbers. Explain these numbers by writing on a chart. 	
August	21	Ch-7, Cube and Cube Roots. Ch-8, Comparing Quantities	<ul style="list-style-type: none"> *Introduction some interesting patterns. *Smallest multiple that is a perfect cube. *Cube roots, cube root through prime factorization *Introduction, increase or decrease %age, discounts *Profit & Loss, C.P & S.P, profit %, Loss% *Sale tax/VAT/GST *Compound interest *Rate compounded annually, semi annually 	<ul style="list-style-type: none"> *Identify the different types of situations in our day to day activities relating to S.I & C.I. compare total amount in each case. 	
September	11	Revision for Term-I	Revision for Term-I		
October	11	Ch-9, Algebraic Expressions and Identities	<ul style="list-style-type: none"> *Introductions *Like and unlike terms *Multiplication *Multiplication of monomial & polynomial *Multiplication of polynomial by polynomial *Identities and its application 	Activity 8	

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
November	23	Ch-14, Factorization Ch- 11, Mensuration	*Introduction *Factorization using Identities *Division of algebraic expressions., finding error *Introduction *Area of Quadrilateral *Area of Polygon *Surface Area and volume	Activity No. 11	
December	16	Ch-10, Visualising solid shapes Ch-12, Exponents and powers	*Introduction *Views of 3D shapes *Mapping shapes around us *Faces, Edges and vertices *Introduction *Laws of Exponents *Standard form	*Write laws of exponents on a chart. Express the product which contains two or more identical quantities.	Make models of few polyhedrons from scrap materials and verify Euler's formula.
January	22	Ch-13, Direct & Inverse proportion Ch-01, Introduction to Graph Ch-16, Playing with Numbers .	*Introduction *Direct proportion *Inverse proportion *Introduction *Charts and Graphs *Line Graph *Coordinates and its applications *Introduction *Numbers in General form *Test of Divisibility	Activity 13 *Prepare a chart of divisibility rules with examples.	
February	13	Revision for Term II	Annual Exams		

Subject Co-ordinator: Mr. Rajeshwar Karmakar

**श्री अय्यप्पा पब्लिक स्कूल
बोकारो इस्पात नगर**

पाठ्यक्रम 2022-2023

वर्ग – अष्टम

निर्धारित पुस्तकें:- 1. नई गुलमोहर-8

विषय – हिन्दी

2. प्रेमचंद की लोकप्रिय कहानियाँ

3. व्याकरण निपुण-8

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
अप्रैल-2022	22	नई गुलमोहर	देशवासियों को देश की सुरक्षा	कविता का सस्वर वाचन करना	कला एकीकृत परियोजना
		पाठ-1 पहरूए	के प्रति सजग रहने का आह्वान		ग्रुप – 1
		सावधान रहना-गिरिजा कुमार			रविन्द्रनाथ ठाकुर ने अनेक
		माथुर (कविता)			गीत लिखे, जिन्हें आज
		पाठ-2 साए-हिमांशु जोषी		अफ्रीका महादेश में कितने	रवीन्द्र संगीत के नाम से
		(कहानी)		देश हैं? इन देशों की	जाना जाता है उनके गीतों
		पाठ-3 मेरी साहसिक यात्रा		राजधानियों का नाम	के संग्रह को पीपीटी के
		डैनियल डिफो (यात्रा वृत्तांत)		लिखकर एक सूची तैयार	माध्यम से दर्शाए।
		प्रेमचंद की लोकप्रिय कहानियाँ		कीजिए।	ग्रुप – 2
		पाठ-1 पंच परमेश्वर	पंचायत की श्रेष्ठता को दर्शाना	रॉबिंसन क्रुसो व गुलीवर की	कोविड-19 में अपने माता
		पाठ-2 मंत्र		यात्रा का तुलनात्मक अध्ययन	पिता को खोनेवाले अनाथ
		व्याकरण निपुण		कर इसपर चर्चा करें	बच्चों के लिए यू पी में
		पाठ-1 भाशा, बोली, लिपि और व्याकरण	भाशा के रूप, लिपि का विकास, व्याकरण के भाग।		मुख्य मंत्री बाल सेवा योजना तैयार की गई थी

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मई-2022	05	पाठ-2: वर्ण विचार और उच्चारण	वर्ण के प्रकार और उच्चारण स्थान।		तहत बच्चों को कैसी सुविधाएँ प्राप्त होती है
		<u>नई गुलमोहर</u>			इस पर रिपोर्ट तैयार करें
		पाठ-4 मैं हूँ उनके साथ खड़ी- डॉ. हरिवंश राय बच्चन (कविता)		देश की सुरक्षा से संबंधित	ग्रुप - 3
		<u>प्रेमचंद की लोकप्रिय कहानियाँ</u>		कुछ प्रमुख समस्याओं को	आज संचार क्रांति का युग
		पाठ-3 बड़ें घर की बेटी		क्रमबद्ध लिखिए तथा	है। वर्तमान में पत्र के
		<u>व्याकरण निपुण</u>		गिरिजा कुमार माथुर की	अलावा और कौन-कौन
		पाठ-3 संधि	संधि का अर्थ व परिभाषा	किसी दो प्रमुख रचनाओं पर	से माध्यम है। जिसमें
जून -2022	13	<u>नई गुलमोहर</u>		अपनी टिप्पणी लिखिए।	संदेश भेजा जाता है,
		पाठ-5 मिखारिन-रवीन्द्रनाथ टैगोर (कहानी)			स्लाइड के माध्यम से दर्शाए।
		पाठ-6 अलबर्ट आइंस्टीन संकलित (जीवनी)	अलबर्ट आइंस्टीन के व्यक्तित्व एवं कृतित्व पर चर्चा		ग्रुप - 4
		<u>प्रेमचंद की कहानियाँ</u>			गाँधी जी का प्रिय भजन
		पाठ-4 भाड़े का टट्टू	मित्रता की अस्थिरता का	प्रेमचंद की प्रसिद्ध कहानियाँ	वैष्णव जन तो तेने कहिए, जो पीर पराई जाणे रे' का
			कारण स्वार्थ को दर्शाना।		बच्चे सस्वर

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जून-2022		पाठ-5 सौभाग्य के कोड़े	अनाथ बालक को अपने संघर्षों द्वारा समाज में सम्मान पाना	कहानियों में हमारी मिट्टी की गंध है।	वचन कर विडियो तैयार करें
		व्याकरण निपुण-			ग्रुप - 5
		पाठ-5 षब्द विचार	षब्द व पद की परिभाषा		साहित्य के क्षेत्र में
		पाठ-12 उपसर्ग	उपसर्ग का अर्थ व परिभाषा		नेबेल पुरस्कार विजेता
जुलाई-2022	25	नई गुलमोहर -			जो भारतीय मूल
		पाठ-7 फाँसी से पहले (पत्र)	फाँसी से पहले भगत सिंह द्वारा सेंट्रल जेल से लिखा गया मित्र को पत्र।	फाँसी की सजा मिलने पर भगत सिंह के मन में क्या-	(जिनका जन्म भारत में हुआ) के है
		प्रेमचंद की कहानियाँ		क्या विचार आए होंगे। अपने	उनकी सूची तैयार
		पाठ-6 बूढ़ी काकी		चिंतन के आधार पर लिखें	कर उनके विषय में
		व्याकरण निपुण-	बूढ़ी काकी पत्र के माध्यम से		लिखें।
		पाठ-13 प्रत्यय	पाठकों के मन में वृद्धों के प्रति सहानुभूति जागृत करना।	वर्तमान काल में वृद्धाश्रम बढ़ रहे हैं और बुजुर्गों का सम्मान खत्म हो रहा है।	
			प्रत्यय की परिभाषा व भेद	बुजुर्गों के	

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		पाठ-14 समास	समास की परिभाषा व भेद	सम्मान का महत्व देते हुए	
अगस्त-2022	21	<u>नई गुलमोहर</u> -		अपना मत प्रस्तुत करें।	
		पाठ-8 साइकिल की		अपने प्रथम साइकिल	
		सवारी-सुदर्शन (हास्य कथा)		चलाने के अनुभव को लिखिए	
		<u>प्रेमचंद की लोकप्रिय कहानियाँ</u>		एवं कल्पना के आधार पर	
		पाठ-7 नषा		एक कहानी लिखिए।	
		<u>व्याकरण निपुण-</u>			
		पाठ-15 संज्ञा	संज्ञा की परिभाषा व भेद		
		पर्यायवाची, विलोम, मुहावरे			
		अनेक शब्दों के एक शब्द,			
		अनुच्छेद तथा पत्र लेखन का			
		आधा भाग			
सितंबर-2022	11	<u>नई गुलमोहर</u> -			
		निर्धारित पाठों की पुनरावृत्ति			
		प्रमेचंद- पुनरावृत्ति व्याकरण - पुनरावृत्ति			

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अक्टूबर-2022	11	द्वितीय सत्र	कर्मवीर व्यक्ति की विषिष्टता	किसी चार कर्मवादी	
		नई गुलमोहर –	का वर्णन	महापुरुशों की जीवनियों को	
		पाठ-9: कर्मवीर – अयोध्या सिंह उपाध्याय 'हरिऔध' (कविता)		लिखिए।	
		व्याकरण निपुण	लिंग की परिभाषा व भेद		
		पाठ-6 लिंग	वचन की परिभाषा व भेद		
		पाठ-17 वचन	कारक की परिभाषा व भेद		
		पाठ-18 कारक			
नवंबर-2022	23	नई गुलमोहर –	विष्व विजय सिकन्दर का छल		
		पाठ-10 सिकन्दर और पुरु–	द्वारा पुरु को पराजित कर बंदी		
		संकलित (एकांकी)	बना लेना।		
		पाठ-11 मेरा विद्यार्थी जीवन			
		महात्मा गाँधी (संस्मरण) प्रेमचंद की लोकप्रिय कहानियाँ			
		पाठ-8 खुदाई फौजदार			

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
		<u>व्याकरण निपुण</u>	सर्वनाम का अर्थ तथा भेद		
		पाठ-19 सर्वनाम	विशेषण की परिभाषा व भेद		
		पाठ-20 विशेषण			
दिसंबर-2022	16	<u>नई गुलमोहर</u>			
		पाठ-12 भविष्य का भय	भारत में अनेकता में एकता को दर्शाना		
		आषापूर्णा देवी (कहानी)			
		पाठ-13 संस्कृति क्या है रामधारी सिंह 'दिनकर'			
		(निबंध)	किसानों की दयनीय स्थिति की		
		प्रेमचंद की लोकप्रिय कहानियाँ	मार्मिकता को अभिव्यक्ति करना।		
		पाठ-9 पूस की रात			
		<u>व्याकरण निपुण</u>			
		पाठ-21 क्रिया	क्रिया की परिभाषा व भेद		
		पाठ-22 काल	काल की परिभाषा व भेद		

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जनवरी-2023	22	नई गुलमोहर	जीवों के प्रति दया की भावना	पाठ में आए विशेषण	
		पाठ-14 नीलू-महादेवी वर्मा (रेखाचित्र)		संबंधबोधक अव्यय, विलोम	
		प्रेमचंद की लोकप्रिय कहानियाँ		षब्दों को लिखना।	
		पाठ-10 नमक का दारोगा + पुनरावृत्ति			
		व्याकरण निपुण			
		पाठ-23 क्रियाविशेषण + पुनरावृत्ति	क्रियाविशेषण की परिभाषा तथा भेद।		
		पर्यायवाची, विलोम, अनेक शब्दों के लिए एक शब्द,			
		पत्र लेखन, अनुच्छेद लेखन			
		का आधा भाग।			
फरवरी-2023	13	पुनरावृत्ति (पढ़ाए गए पाठों की) वार्षिक परीक्षा			

श्री अय्यप्पा पब्लिक स्कूल
बोकारो इस्पात नगर

पाठ्यक्रम 2022-2023

विषय – संस्कृत

वर्ग – अष्टम

निर्धारित पुस्तकें:- 1. सरस्वती नई दीप मणिका संस्कृत पाठ्यपुस्तक 2. प्रायोगिक संस्कृत व्याकरण

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अप्रैल-2022	23	नई दीप मणिका संस्कृत पाठ्यपुस्तकम्		युश्मदं अस्मदं षब्द रूपों से प्रश्नों के उत्तर लिखना।	
		1. अस्माकं विधालयः		पाठ का सस्वर उच्चारण करना	
		2. चन्द्रगुप्त नयाय (संस्कृत व्याकरणम्)			
		1. संस्कृत वर्णमाला	1. स्वरवर्ण 2. व्यंजनवर्ण		
		2. सन्धिः	स्वर संधि		
		अनुवादः			
मई-2022	05	नई दीप मणिका संस्कृत पाठ्यपुस्तकम्		उपपद विभक्ति का वाक्यों में उचित प्रयोग का उच्चारण सस्वर	रविन्द्रनाथ टैगोर का सचित्र
		3. महताम अपि महान्			संस्कृत में पाँच
		संस्कृत-व्याकरणम्			वाक्य का जीवनी
		2. सन्धिः	स्वर संधि, विसर्गसंधि		लिखना।
		अनुवादः			

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
जून-2022	12	MCB			
		4.सुवचनानि	उत्तम पुरुशः	लङ्. लकार का प्रयोग कर	
		व्याकरणम्		प्रश्नोत्तर विधि से सचित्र	कक्षा का चित्र
		2. सन्धि	प्रथमा से सप्तमी	वार्तालाप लिखें।	बनाकर अपनी
		3. लिङ् निर्धारणम्		1 से 4 तक के संख्या का	अध्यापिका के बारे
		पत्र लेखनम्		सचित्र तीनों लिंगों में	में संस्कृत में पाँच
जुलाई-2022	25	MCB		संस्कृत षब्द बोलना।	वाक्य में लिखें।
		5. श्रृगाल-कथा			
		6. ईश्वरः यत्करोति षोभनं करोति		उपपद विभक्ति का वाक्यों में	
		7.वार्तालापः (सन्धि)		प्रयोग कर उच्चारण सस्वर।	
		व्याकरणम्	प्रथमा से सप्तमी		
		4. षब्दरूपाणि	बाल, लता, फल, कवि		
		5. उपपद विभक्ति			

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
अगस्त-2022	21	MCB			
		8. सुवचनानि		प्लोको का गायन सस्वर	रक्षाबंधन पर
		व्याकरणम्		करना	सचित्र पाँच वाक्य
		6. संख्यावाची षब्दाः	1 से 20	5. विष्वविख्यात कवियों का	संस्कृत में लिखें ।
		अनुच्छेदलेखनम्		नाम बोलकर उनके बारे में	
		पत्र लेखनम् अनुवाद		2-2 वाक्य संस्कृत में	
				बोलना ।	
सितंबर-2022	22	पुनरावृत्ति-		5. प्लोको को सुन्दर अक्षरों	
		MCB		में लिखना ।	
		व्याकरणम्			

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
अक्टूबर-2022	12	MCB		एक वृक्ष बनाकर परिवार के सदस्यों पिता, माता,	दुर्गा पूजा पर
		9. एकः परिवारः		दादा, दादी, नाना, नानी	पाँच वाक्य सचित्र
		10. स्वच्छतायाः		भाई ,बहन, मामा, मामी	संस्कृत में लिखें ।
		महत्वम् व्याकरणम् –	पठ्, लिख्, हस्, गम्, अस्, धातु	आदि षब्दों को संस्कृत	
		7. धातु रूपाणी	का लट्, लृट्, लङ्, लोट् में रूप	में लिखकर दर्शायें ।	
		8. प्रत्यय	क्त्वा, ल्यप्, तुमुन्		
		अनुवादः गद्यांशः			
नवंबर-2022	24	MCB -11. महात्मा बुद्धः		5. अव्यय से वाक्य बनाकर	
		12. सुभाशितानि		बोलना।	
		व्याकरणम् –			
		9. अव्यय	अत्र, कदापि, तीव्रम्, सह मन्दम्, सदा, वृथा, यदा, अधुना	अर्थ को सस्वर बोलना ।	
		10. उपसर्ग	आ, अव, वि, उद्, प्र, सम्, परि, उप		
		चित्र, पत्र, अनुवाद			

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
दिसंबर-2022	19	MCB		.पाँच फूलों, फलों के नाम	क्रिसमस ट्री
		13. मूर्खः भृत्यः		संस्कृत में सस्वर बताना ।	बनाकर क्रिसमस
		14. नैवक्लिष्टा न च कठिना			पर्व पर पाँच वाक्य
		व्याकरणम् –			संस्कृत में लिखना
		11.विषेशण- विषेश्य		विषेशण- विषेश्य का प्रयोग	
		12.अषुद्धि संषोधनम्		कर पाँच वाक्य लिखना ।	
		अनुवादः, पत्र			
जनवरी-2023	22				
फरवरी-2023	22	पुनरावृत्ति-			
		डब्			
		व्याकरणम्			

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SYLLABUS-2022-23

Class : VIII
 Subject : SCIENCE
 Prescribed Books : Science (NCERT), Science-8 (Prachi India Pvt. Ltd.)

Month	No. of working days	Subject	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
April	22	Phy.	Ch-11, Force and Pressure	Force, Forces are due to an interaction, Types of forces, Unit of force, Resultant force, Balanced and unbalanced force, Effect of force, Pressure, Pressure exerted by fluid.	To show the effect of two or more forces applied on an object in: i) Same direction ii) Opposite direction	Project- Area and pressure (Critical thinking and creativity)
		Chem.	Ch-3, Synthetic Fibres and Plastics	Monomers and polymers natural and synthetic polymers, synthetic fibres-properties and uses, Rayon, Nylon, Polyester, Acrylic.	To distinguish and list various household articles, based on the fibres they are made of.	
		Bio.	Ch-1, Crop Production and Management	Agriculture, crop plants crop seasons in India Basic agriculture practices. Crop improvement, Green Revolution.	To study the effect of deep and shallow sowing of seed.	
May	05	Phy.	Ch-11, Force and Pressure Contd..	Atmospheric pressure, Applications of atmospheric pressure		Project: Fisheries (enquiring base learning)
		Chem.	Ch-3, Synthetic Fibres and Plastics contd...	Plastics, Plastics and the environment		
		Bio.	Ch-1, Crop Production and Management contd...	Foods from animal sources-Dairying, poultry care, Fisheries, Agriculture		
June	12	Phy.	Ch-12, Friction	Friction, Cause of friction, factors affecting friction, Importance of friction, Increasing friction, Reducing friction, Friction in fluids.	To show the effect on nature of surface on the force of friction.	
		Chem.	Ch-4, Materials: Metals & Non metals	Occurrence of metal & non metals in nature, Physical and chemical properties of metal and non metals.	To find out sonority in metals & non-metals.	
		Bio.	Ch-2, Microorganism Friend and Foe	Microorganisms, General characteristics of micro organism, discovery and Habitat of Microorganisms. Major groups Basic Economic importance of microorganism	To demonstrate formation of alcohol by yeast	

July	24	Phy. Chem. Bio.	Ch-13, Sound Ch-4, Materials: Metal & Nonmetal Contd... Ch-5, Coal & Petroleum Ch-2, Microorganism Friend and Foe Contd.. Ch-7, Conservation of plants and animals	How sound is produced, musical instrument, How humans produce sound, propagation of sound, speed of sound, human ear, Oscillations, Amplitude, Frequency, Music & Noise, Measurement of sound, Noise Pollution Reactivity series of metals, Uses of metal & non metal. Natural Resources, Fossil fuels, coal, formation of coal, Different types of coal, coke, coal gas coal tar, petroleum, formation of petroleum, Refining of petroleum. Beneficial microorganism, Harmful microorganism, food preservation, methods of food preservation, Nitrogen fixation Biodiversity, threats to biodiversity, forests, conservation & management wild life conservation.	To make a jal tarang To make a reactivity series chart Make a list of five endangered animals and plants.	AIP Metals (Enquiry Bases learning)
August	21	Phy. Chem. Bio.	Ch-14, Chemical effects of electric current Ch-5, Coal & Petroleum Ch-7, Conservation of plants and animals Contd..	Conduction of Electric current through liquid LED, Electrical conductivity of water, chemical effect of electric current. Electrolysis-its application, Electroplating. Impacts of petroleum on the environment, natural gas, fossil fuels are limited. Cause of wild life depletion, The Red Data Book, Strategies for wild life conservation, legal provisions for conservation of bio diversity	Make a list of electrolyte for the following: i) non conductor ii) poor conductor iii) good conductor	
September	11		Revision	Revision Half Yearly		
October	11	Phy. Chem. Bio.	Ch-15, Some Natural Phenomena Ch-6, Combustion and Flame Ch-8, Cell Structure and Function	Lightning, Electroscope, Cause of lightning, protection from lightning, Lightning conductor, Earthquake-cause. Combustion, condition necessary for combustion, Types of combustion, Flame, Structure of candle flame. What is cell? discovery of cell, cell theory, Variation in number of cells in organisms. Diversity in shape & size of cells.	To show that unlike charges repel each other To show that air is necessary for combustion	

November	23	Phy.	Ch-15, Some Natural Phenomena Contd....	Intensity of Earthquakes, Seismograph, Protection against earthquake.			
			Ch-16, Light	Reflection of light, Laws of reflection, Image formation by plane mirror, Multiple Reflection			
		Chem.	Ch-6, Combustion and Flame Contd...	Fuel characteristics of good fuel, fuel efficiency, Environmental impact of burning fuel.			
		Bio.	Ch-8, Cell Structure and Function	Cell structure, Cell organelles	To paste the pictures of animals having external fertilization and internal fertilization (Two each)	Project: Prokaryotic & Eukaryotic cell	
			Ch-9, Reproduction in Animals	Reproduction, Modes of reproduction, Asexual reproduction, sexual reproduction.			
December	16	Phy.	Ch-16, Light Contd...	Dispersion of light, The human eye, structure of eye, defect of vision, eyes of some other animals, visually challenged people.			
		Chem.	Ch- 18, Pollution of Air and Water	Pollution, Air pollution Major air pollutants, Acid rain, Measures to control air pollution.			
		Bio.	Ch-9, Reproduction in Animals contd... Ch-10 Reaching the age of Adolescence	Human reproduction, determination of sex of child in human, adolescence & puberty, reproductive phase in human life, reproductive health, and Endocrine system.			
January	22	Phy.	Ch-17 Stars and the Solar System.	Night sky, the moon-phases of the moon, surface of the moon, stars, the sun, constellation, The solar system, Artificial satellite.	To make a chart to show different phases of the moon.		
		Chem.	Ch- 18, Pollution of Air and Water	Water pollution, causes of water pollution, Measures to reduce water pollution, potable water.			
		Bio.	Ch-10 Reaching the age of Adolescence	Endocrine system, Endocrine glands, Hormones secreted by them and their function.			
February	13	Revision for Final Exam.					

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SYLLABUS-2022-23

Social Science

Std. VIII

Text Books: 1) Our Past -1
2) Resources and Development
3) Social and Political Life -1

Reference Book:- Our World Then and Now

Month	No. of working days	Sub.	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
April + May	23 + 05	H-1 G-1 C-1 H-2	How, When and Where Resources Unit 1- The Indian Constitution and Secularism From Trade to Territory	Colonisation Human Resources, Conservation of soil Features of Indian Constitution East India Company	*Quiz *Memory and curiosity To Generate awareness among the people regarding depletion of resources Minerals. <ul style="list-style-type: none"> • Thinking • Chart Work Group Discussion <ul style="list-style-type: none"> • Subject knowledge • Expression • Clarity • Active Listening Debate: <ul style="list-style-type: none"> • Critical Analysis • Logical thinking 	<u>Individual Project:</u> Topic: Functioning of East India Company. (Summer Assignment)
June	13	H-2 G-2	From Trade to Territory Land, Soil, Water, Natural Vegetation and Wildlife Resources	East India Company Conservation of soil	Debate: <ul style="list-style-type: none"> • Critical Analysis • Logical thinking Project Report on conservation of soil <ul style="list-style-type: none"> • Awareness and skill development • Collage making • Creativity 	
July	25	C-2 H-5 G-3	Understanding Secularism When People rebel (1857 and after) Mineral and Power Resources	Compare of Indian Secularism with USA Secularism Doctrine of Laps Conventional sources of Energy	Debate: <ul style="list-style-type: none"> • Critical and analytical thinking. • Test of knowledge Case Study of the states suffered due to it <ul style="list-style-type: none"> • Problem Solving. • Distribution of minerals in India • Map Pointing • Collecting different types of minerals • Collecting pictures of sources of energy. 	

Month	No. of working days	Sub.	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
August	21	C-3 H-6 C-4	Unit 2 Parliament and the making Laws Why do we need a Parliament? Colonialism and the city (The story of an Imperial capital) Understanding Laws	Analysis of result of 2019 Lok Sabha Election The making of New Delhi Controversial Laws	Discussion <ul style="list-style-type: none"> Analytical thinking Social awareness Essay Writing: <ul style="list-style-type: none"> Story telling Knowledge Test Group Discussion/Debate <ul style="list-style-type: none"> Critical & Analytical thinking, expression 	→Group Project Topic: Project on the result of 2019 Lok Sabha Election.
September	22		Revision for Half yearly examination, Oral/written practice through assignment, Doubt clearance Classes, Mock Test.			
October	12	H-8 G-4	Civilizing the "Native" Educating the Nation Agriculture	The Agenda for a National Education Types of farming.	*Knowledge Test *Expression *Critical thinking Different types of farming practiced in different pockets of India *Skill, Artistic ability (Collage and file work)	Individual Project Topic: Different Tribal people living in India
November	24	C-5 H-11 G-5	Unit 3- The Judiciary The making of the National Movement (1870's-1947) Industries	The structure of courts in India The emergence of Nationalism, The Growth of Mass Nationalism. Classification of Industries, factors affecting Location of Industries.	→Different levels of courts functional in India. *Knowledge Test *Social groups participated and did not participate in the national movement. *Critical thinking and social awareness Map Pointing *Critical thinking *Analytical thinking *Artistic ability	

Month	No. of working days	Sub.	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
December	19	C-6 H-12 G-6 C-9	Understanding our criminal Justice System India after Independence Human Resources Public Facilities	*Role of the Public Prosecutor *Role of the Judge *What is fair trial? *Constitution *States to be formed *Planning for development *Factors Affecting *Distribution of population *The Government's Role *Public Facilities	Draw the flow chart of Indian Judiciary system. *Knowledge *Graphical Representation *Population pyramid of India *Flow chart *Critical Thinking, Skill development Debate *Functioning of Government for providing the basic facilities to people in different locality. *Development of Social Awareness.	→ <u>Group Project</u> Topic: How was constitution of India framed. How effective it is? ● Expression ● Thinking skill
January	22	C-10	Law and Social Justice	*Enforcement of safety laws *New laws to protect the Environment	Debate: *Why should people follow the law *Knowledge	
February	22		Revision	Quiz, Mock test etc		

Subject Coordinator: Vibha Jha

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SYLLABUS-2022-23

SUB: Information Technology (IT)

Std. VIII

Text Books: Touchpad Plus

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
April + May	22 + 5	Ch-1, Computer Networking	<ul style="list-style-type: none"> *computer Network *Need of Network *Advantages of Computer Network *Components of a network *Network Terminologies *Devices required for a Network *Types of Network *Topology *Network Architectures wireless Technology *Protocols 	<ul style="list-style-type: none"> ●Draw the diagram of various topologies taught. 	Make a model of various topologies by using different materials. (Wool, matchstick ear buds etc.) Critical thinking skills.
June	13	Ch-2, Introduction to Adobe Photoshop cc	<ul style="list-style-type: none"> *Features of Adobe Photoshop cc *Opening Adobe Photoshop cc 2018 *Creating a new document. *Adobe Photoshop cc 2018 Interface. *Opening an image in an existing document *Tools in Photoshop *Move and selection tools. *Cropping, painting, Inserting Text and Transform tools *Saving a file in Photoshop and closing a file. *Exiting Photoshop. 	<ul style="list-style-type: none"> ●In lab, elaborate various tools and their use. 	Make a poster based on International Yoga Day' Using Adobe Photoshop cc software.
July	25	Ch-3, More on Photoshop	<ul style="list-style-type: none"> *Layers in Photoshop. *Painting Tools in Photoshop *Retouching tools *Drawing tools *Shape tools 	<ul style="list-style-type: none"> ●Use the various tools of Photoshop 	

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
August	25	Ch-4, Lists and Tables in HTML Ch-5, Images, Links and Frames in HTML	*creating List Creating Tables. *Inserting images *Creating Marquee *Linking Web Pages. *Frames	●Make a HTML list of items required for organising a Birthday Party	
September	11	Revision & Practical exam	Assessment		
October	12	Ch-6, Python Loop and Functions	* The For Statement *The while statement *Jump Statements *Functions	●Implementation of taught loops	
November	24	Ch-7, Computer Safety and Security	*How to keep your computer physically fit? *Protecting your computer from illegal access. *How to backup your importance techniques. *Malware *Antivirus *Firewall		Create a fact file regarding cyber security
December	19	Ch-8, Google Apps. Ch-9, App Development	*Google *Apps of Google *What is an app.? *Define the Android and ios. *Downloading and installing the app. *Developing an app.	●Discuss about various apps and their developers.	Fact collection on Artificial Intelligence
January	22	Ch-10, Latest Technological Development	*Artificial intelligence *Augmented reality and virtual reality *Internet of things *3D Printing *RPA (Robotic Process automation)		Intelligence
February	11+8	Revision & Practical Examination			

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SYLLABUS-2022-23

Art & Craft

Std. VIII

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
April + May	23 + 5	*Let's get started with line drawing *Doddle *Kangometry	Line Drawing and Abstract patterns		
June	13	*Exploring textures *Reduce-Rouse-Re-Cycle *Torn Paper Collage	Textures, newspaper, painting	Tissue paper painting	
July	25	*Negative and Positive space *Perspective study can be fun *Still Life	Paper Collage, Positive and negative space.		
August	21	*Living objects study *Colour *Space, Shapes, Forms and colours	Pencil Sketch, Primary colours		
September	22	*Monochromatic colours *Indian textile-Chikan kari Folk Art of India-Kutch	Black and White painting Indian Textile		
October	17	*Aboriginal painting from Australia *Portrait study *Expressions and body parts	Folk art and self portrait	Canvas painting	
November	24	*Great Artists Inspire us Western Artist Rembrandt *Famous Western *Great Artist Inspire us Indian Artists Raja Ravi Varma.	Raja Ravi Varma and Rembrandt		

December	19	*Onomatopoeia *Learn to draw cartoons *Lets design a postage stamp	Visual imagery painting and cartoons		
January	22	*Picture composition *Picture composition	Stamp design composition	Paper box	
February	22	*Picture composition *Let's peep out Revision Annual Exam	Picture composition Sketch		

Subject Co-ordinator: Smt. Ranju & Shri. Saroj Tiwary

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BOKARO STEEL CITY

SYLLABUS-2022-23

General Knowledge

Std. VIII

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
April	22	Unit-I Incredible India	*Dancing Footsteps, *Photo Album *Glorious History*Demonetization	Class Quiz	
May	05	Unit II	*Sports Organization*Champions League*Summer Olympics 2016 *Quick Shots		
June	12	Unit III	*Science Zone *Metallurgy *Medical Room *Microbial World	G. D.	
July	25	Unit IV Fauna Kingdom	*Forest cover *Water Kingdom *Amazing Adaptations*Beautiful Birds*Insect Poison *Picturesque		
August	21	Unit V Language 7 Literature	*Acronyms *Children's Literature *Pen names *Vocab Tester *Funny English *Factastic		
September	11		*Rapid Fire *Round 1 *Current Affairs *Mental Ability Revision Half Yearly		Assessment I
October	11	Unit VI	*Plant Trivia *Non-Green Plants *Floral Pictionary *Plants Reckoner		
November	23	Unit VII Across the World Unit VIII Health Mantra	*World Superlatives *Unheard Natural Wonders *World Festivals *Currency Cross word *Special names, *Parliaments of Different Countries, *Personalities of the word Branding *Food and Diet *Diseases *Balanced diet		
December	16	Unit IX Art & Entertainment	*Movie Gallery *The Art Corner *Factastic: Indian Architecture *Art and Indian Artists *Musical Facts *Extra Terrestrial *Space Search	Class Quiz	
January	22	Unit X Mixed Bag	*Good & Services Tax (GST) *Traffic Smart *Word Game *Chameleon Choppers *Days to remember *Mental Ability		
February	13		*Mental Ability *Current Affairs *rapid Fire *Round II	Revision	

Subject Co-ordinator: Mr. Devender Sharma / Mr. Manoj Mishra

Sree Ayyappa Public School

BOKARO STEEL CITY

SYLLABUS-2022-23

MUSIC

Std. VIII

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
April + May	23 + 05	*Alankar , Music and Aaroh & Avaroh	Definition of Alankar Music and Aaroh-Avroh		
June	13	*Bhajan based on Raag Bhupali Raag based Alankar	Gaiyiye Ganapati Jag Vandan, Describe the pattern or Alankar	Make project a 5 Alankar in raag.	
July	25	*Bhajan-New one, Taal-Teentaal, Dadra	Describe the Teental, Dadra and count by hand bit all the Matraas, Bhajan		
August	21	*Tabla, Harmonium & Keyboard.	Describe about Tabla, Harmonium and Keyboard.	Make project on Tabla, Harmonium keyboard and their parts (Chart paper)	
September	22	Revision			Assessment I
October	12	*Introduction- Raag Bilawal.	Describe about Raag Bilawal.		
November	24	*Keyboard, Swar, Varna, Thaata, Raag.	Describe about different type of scale and their notes on Keyboard		
December	19	*Saptak, Swar, Naad, Laya, Group song	Describe about saptak swar, Naad and laya, Different type of swar and different type of saptak.		
January	22	*Amir Khusro, Pd.Bishnu Narayan Bhatkhande.	Describe the history of Amir Khusro and Bishnu Narayan Bhatkhande		
February		Revision	Annual Exam.		

Subject Co-ordinator: Mr. Rakesh Kumar & Balram

Sree Ayyappa Public School

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SYLLABUS-2022-23

DANCE

Std. VIII

Month	No. of working days	Chapter/Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
April	20	*Introduction of Bharatnatyam	Knowledge about Bharatnatyam, Dhyana Shlogam and its meaning	Basic Bharatnatyam. Adavu, Dhyana Shlogam, Nattaadavu, 4 natta adavu	
May	05	Revision			
June	12	*Importants of hand gestures in dance	Asamyukth – 28 Samyukth - 12	Practicing mudras, Natta adavu – 5-8.	
July	24	*Taal Parichay and abhinaya Greeva bhed	Aadi taal counting 8 count , knowledge about 4 kinds of abhinaya	Greeva Bhed	
August	21	*Introduction of Kathak dance	Kathak knowledge	Kathak Pranam / 3 taal, tatkar, with hastak	
September	11	*Guruvandana *Saraswati Vandana	Guruvandana dance	Revision	Assessment I
October	11	*Shiro bhed (Neck movement), Kathak Chakkars	Shiro bhed notes with shloka chanting, chakkar counting	Practicing chakkar with hasthak/Durga puja dance	
November	23	Indian folk dance	History of Folk Dances & Jewellery making	Any folk dance using with props.	
December	16	Importance of Props in dance	Why we use props in dance, difference between good dancer & great dancer.	Aamad in teentaal with teehai	
January	22	Introduction of Music instruments	How many types of Instruments we used in classical dance.	Knowledge about different types of Western dances.	
February	13	Lesson Dance Makeup	Write the basic ingredients of makeup and its usage.	Dance makeup Practical.	

Subject Co-ordinator: Mrs. P. Chitti Lata

SREE AYYAPPA PUBLIC SCHOOL

SYLLABUS : 2022 – 23

Class : VIII
Subject : PHYSICAL EDUCATION

Month	Working Days	Chapter / Unit Topic	Sub Topic	Activities	Projects (21 st Century Skills)
April	22	Basketball	<ul style="list-style-type: none"> • Measurement • Rules and Regulation • Warming up → General → Specific • Skills 	<ul style="list-style-type: none"> • Dribbling • Shooting • Passing • Defensive 	
May + June	05 + 12	Chess	<ul style="list-style-type: none"> • Rules and Regulation • Skills 	<ul style="list-style-type: none"> • How to move chess pieces • How to Note down the moves of chess in copy 	
July	24	Football	<ul style="list-style-type: none"> • Measurement • Rules and Regulation • Warming up → General → Specific • Skills 	<ul style="list-style-type: none"> • Kicking • Ball Control • Passing • Tacking 	
August	21	Volleyball	<ul style="list-style-type: none"> • Measurement • Rules and Regulation • Warming up → General → Specific • Skills 	<ul style="list-style-type: none"> • Service • Passing • Attack • Blocking 	
September	11	Body Mass Index	Height and Weight of Students Half Yearly Exam		

October	11	Kho - Kho	<ul style="list-style-type: none"> • Measurements • Rules and Regulation • Warming up → General → Specific • Skills 	Chasing Skills Running Skills	
November + December	23 + 16	Athletics	<ul style="list-style-type: none"> • Various events in Athletics • Skills • Rules and Regulation 	Sprint Race Middle Distance Race Jumping and Throwing Events	
January + February	23 + 13	Yoga + Fitness Test	<ul style="list-style-type: none"> • 2 Yoga Asana • 6 x 10 m shuttle Run • 600 m Walk • Sit ups 		
