St. Edmund's School

Play Group to 10+2 [CBSE Affiliated]

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Std.-XII
Holiday Home Work
Session 2023-24

Subjects	Homework
Political Science (028)	**Objectives of project work:** ➢ To enable learners to probe deeper, initiate action and reflect on knowledge and skills acquired during the course of class XII To analyze and evaluate real world. ➢ scenarios using social constructivism, a theory based on observation and scientific study. ➢ To become independent and empowered to choose their topic and gather data from a variety of source. ➢ investigate varied viewpoints acquired during the course XI-XII and arrive at logical deductions. ➢ To enquire into, and reflect on, issues independently /in collaboration with others and identify the limitations. ➢ To develop 21st century skills of communication, cooperation, coordination, critical thinking, creativity and collaboration to produce an extended and independent work. **Suggested Topics:>** 1. NAM- 1961 to present times. 2. Division of Germany with special focus on the construction and dismantling of the Berlin Wall. 3. CIS-Central Asian Republics 4. Disintegration of USSR with special focus on Gorbachev. 5. Arab Spring 6. Cover the negative as well as positive aspects of relationship between India and the following countries. **Focus on any one of the following (current updates should be highlighted):** a) Relationship between India and Russia b) Relationship between India and China c) Relationship between India and Pakistan d) Relationship between India and Banglades 7. ASEAN 8. European Union and BREXIT 9. BRICS 10. SAARC 11. India's Nuclear Policy 12. United Nations with focus on India's candidature in Security Council. 13. UN Agencies – UNICEF, UNESCO, WHO 14. Pandemics: Covid 19- Its global impact (focus on worldwide cooperation and preparedness along with controversies (please collect newspaper clippings for the same) 15. Partition of India-Theory behind it and its legacy

Psychology (037)	1. Make a case study on any disorder (Example - Anxiety or Depression). 2. Write these psychological tests in a practical file. a) SCAT b) SAS c) BAI d) HSPQ e) DBDA

Business Studies (054)	1. Activity - **Get familiar with stock market**
	   Rahul who has turned 18 this year. He started showing his interest into his father's occupation. As his father is a Business analyst and stock broker ,he suggested him to get familiar with all requirements and regulations necessary to enter into stock market Imagine yourself at Rahul's place and make a creative presentation on the details required to enter into stock market.
	   Collect all the information & make a Real and creative PPT or video for the same .
	2. Complete xii B.st project work as per the cbse guidelines.
	3. Revise the complete covered syllabus upto 15th may .
	4. Make creative mind maps of ch 1 ,2, (I book) and ch 11 marketing (II book)

Entrepreneurship (066)	- Prepare a dictionary of chapter 1,2 by finding terms and meaning from NCERT. - Complete a project on market survey according to CBSE guidelines .

Economics (030)	Q.1 Prepare a crossword puzzle of the terms from the following chapters:-
	   a) National Income Accounting
	   b) India on the eve of independence
	Q.2 Complete the project work according to CBSE guidelines.
	Q.3 Prepare a Mind Map of the chapter Indian economy (1950-1990).
	Q.4 Revise the chapters completed in the class

Painting (049)	**1-Still-Life (A2 size sheets)-**students need to prepare **four still** life.
	           (Three object with two drapery)
	            Medium-
	(a) Hatching
	(b)-Watercolor
	(c) charcoal
	2- Composition –(A2 size sheets)
	(a)-Nature-Animal, Bird, flowers Tree, Fruits, vegetables, landscape (any five)
	(b)-Fantasy, Daily life, Mythology
	3- Sketch Book – 20 sketches of human figures

Biology (044)	1. Write all the important terminologies in your notebook given in Chapter 2(Sexual Reproduction In flowering Plants) and chapter 4 (Reproductive Health) 2. REVISE THE LESSONS (a) Reproductive Health (b) Sexual reproduction in Flowering Plants FOR A TEST WHEN SCHOOL REOPENS 3. Make an Investigatory project of 15-20 pages on anyone topic given below Investigatory projects in class XII Bio 1 Corona 2. Benign tumor 3. Malignant tumor 4. IVF 5. I u i 6 human cloning 7. Human Genome Project 8. AIDS 9.Typhoid 10.ADA 11. Sickle Cell anaemia 12. Down syndrome 13. Malaria 14 Dengue 15 Test tube baby 16. Genetic disorder 17. Transgenic organism 18. Reproductive health 19. Alzimer disease 20 Breast cancer 21. Cloning 22 hemophilia 23.Biotechnology 24. Unequal distribution of population in India 25. Mutation 26.Biopiracy 27. Pollination in flowers OR 1.Brain tumor

	2.Supernumerary parts 3.Ebola virus 4.Possible effect of maternal behaviour on fetal development 5.saccharomyces cerevisiae 6. on immunity of India 7. human embryonic development 8.immunity 9. go smart with organic farming 10. ageing and sleeping 11. infertility 12.Drug addiction 13.malnutrition 14. cancer or oncology 15.AIDS 16.autism 17. malaria 18.diabetes 19. polio 20. heart attack 21.hormones and their roles 22. gene therapy 23.effect of cannabis on the human body 24. DNA fingerprinting 25.anaemia 26. PCR 27. immune system 28. cervical spondylitis 29.seed tolerance for freezing temperature 30. possible effect of maternal behaviour on foetal development 31.effects of diet on blood glucose 32. role of recombinant DNA technology in modern medicine 33.influenza 34. insect diversity in your area 35.(ART) assisted reproductive techniques 36. algal blooms and preventive measures 37.blood clotting 38. IVF treatment 39.cloning 40. twins monozygotic or dizygotic 41.pregnancy problems 42.sleeping habit in person of different age group 43. leukaemia 44. erythroblastosis fetalis 45.cancer
English Core (301)	**Project Portfolio/Project Report Topics List with the Tasks** *General Instructions:* • *It is compulsory for all to prepare the Project file.* • *The Project Report is needed to be completed in 1000 words in your own handwriting.* • *Use A4 size paper sheets for project.* **Project-Portfolio/ Project Report** The Project-Portfolios is a compilation of the work that the students produce during the process of working on their ALS Project. The Project-Portfolio may include the

following:

PROJECT FILE

Page 1 : COVER PAGE, WITH TITLE OF PROJECT, SCHOOL DETAILS/DETAILS OF STUDENT.

Page 2 : STATEMENT OF PURPOSE/OBJECTIVES/GOALS

Page 3 : CERTIFICATE OF COMPLETION UNDER THE GUIDANCE OF THE TEACHER.

Page 4 : ACTION PLAN FOR THE COMPLETION OF ASSIGNED TASKS.

Mid Pages : PROJECT/REPORT DETAILS(Graphics and pictures to be pasted on left hand side and content of the report to be written in your own handwriting on the right hand side of the page.

Last Page : LIST OF RESOURCES/BIBLIOGRAPHY

PROJECT TOPICS

You have to make pictorial as well as graphical presentation on left hand side of the file. All data should be collected authentically and hand written essay of 1000 words on right side. (Take any one topic)

TOPIC 1 - The Last Lesson
- Elaborate the theme of Linguistic Chauvinism and Procrastination and importance of Time Management.
- Collect data about countries where people have these tendencies.
- How do they give importance to their mother tongue? **TOPIC 2 -** *The Lost Spring*

- Collect data about various slums in our country and living conditions there.Also elaborate whether children have access of education there.
- How children are engaged in various kinds of work(Below 14)?
- Collect all information about biggest slums.

TOPIC 3 My Mother At Sixty-six
- Explain the importance of parents in the family.
- On the context of the poem how do you love and care your mother?
- Collect data about condition of old age homes in our country, living condition there, number of old age homes.

TOPIC 4 - The Third Level
- Why „hurry and worry" are trademarks of modern men?
- How far today life is insecure? Why do modern men want to escape?
- Interview your school principal or the counselor to know the problems (stress, fear, anxiety etc.) faced by the students in the virtual platform.
  OR
  Students can also take up any relevant and age-appropriate theme.

Physics (048)	Q. 1. (i) Derive an expression for electric field E due to a dipole of length "2a" at a distant point "r" from the center of the dipole on an axial line. (ii) Draw a graph of E versus r for r>>a (iii) If this dipole were kept in a uniform external electric field E_0, diagrammatically represent the position of the dipole in stable and unstable equilibrium and write the expressions for the torque acting on the dipole in both the cases. Q. 2. (i) Use Gauss" law to derive the expression for the electric field (E) due to a straight uniformly charged infinite line of charge density λ C/m. (ii) Draw a graph to show the variation of E with perpendicular distance r from line of charge. (iii) Find the work done in bringing a charge q from perpendicular distance r1 to r2 (r2 > r1). Q. 3. (i) Explain, using suitable diagrams, the difference in the behaviour of (a) conductor and (b) dielectric in the presence of an external electric field. Define the terms polarization of a dielectric and write its relation with susceptibility. (ii) A thin metallic spherical shell of radius R carries a charge Q on its surface. A point charge Q/2 is placed at its centre C and another charge +2Q is placed outside the shell at a distance x from the centre. Find (a) the force on the charge at the centre of shell and at the point A, (b) the electric flux through the shell. Q 4. - Prepare an investigatory project report
Chemistry (043)	Q 1- Prepare an investigatory project report on any one topic including the following points: 1. Introduction to the topic 2. Research and Analysis 3. Theory 4. Chemical reaction 5. Data collection 6. Conclusion Q 2- Prepare Lab Record

Physical Education (048)	**Practical-1**: Fitness tests- SAI Khelo India Fitness Test
	A. Age Group- 5-8 years/ Class 1-3:
	  1. BMI
	  2. Flamingo Balance Test
	  3. Plate Tapping Test
	B. Age Group- 9-18 years/ Class 4-12
	  1.BMI
	  2. 50 mt. Speed Test
	  3.600 mt. Run/Walk
	  4. Sit & Reach Flexibility Test
	  5. Strength Test (Abdominal Partial Cural Up, Push-Up for Boys, Modified push-Up for girl's)
	Practical-2: Procedure for Asanas, Benefits & Contraindication for any
	two Asanas for each lifestyle disease (Diabetes , Asthma, Hypertension, Obesity, Backpain)
	Practical-3: Labelled diagram of Field &
	Equipment of Basketball/Volleyball. Also mention its Rules, Terminologies & Skills.

Hindustani Music (034)	1 .Make a chart on any musical instrument . 2 .Make the chart On Time theory of Music. 3 .Practical file (a) Describe the ragas Bhairav and Drut Khayal, (b) Describe the ragas malkauns and vilambit Khayal, (c) Write the Talas with dugun n Chaugun Jhaptala Rupak Dhamar (d) Draw the picture of Tanpura and labelled it.
Accountancy (055)	**Q1-Create a "Comic Script" OR "Animated Movie" on lesson: Goodwill-Nature and Valuation OR Fundamentals of Partnership** **General Instuctions:** a. Its a group activity.(4-6 students in one group) b. Use your own storyline to create a comic script c .Mode Of Submission- Prepare a PowerPoint presentation with 8-10 slides**. Mention following things in the first slide:** **Session-2023-24,Accountancy Project, Topic, Name, Class and Section** **Q2-Create Your Own Ouestion Bank** Prepare 5 case study based Questions and 10 MCQ's each from lesson 1,2 and 3 **General Instructions:** **a**. Its an individual activity b. 20 Objective type Questions and 02 Case Study based questions c. From lesson- Accounting for Partnership Firms- Fundamentals
Mathematics (041)	1. Let $f : |R \to |R$ be given by $f(x)= \tan x$. Then $\int^{-1}(1)$ is 2. Let $\int : R \to R$ be defined by $\int(x) = x^2 + 1$. Then , pre –images Of 17 and -3 , respectively, are 3. Let $f : [2,\infty) \to R$ be the function defined by $f(x)=x^2-4x + 5$, Then the range of f is 4. Let $f: R \to R$ be defined by $f(x) = x^8$. Then (a) f is one –one onto (b) f is one –one but not onto (c) f is one –one into (d) f is neither one-one nor onto 5. Let $f :N \to N$ given by $f(1) =f(2)=1$ and $f(x)=x-1$ for x>2. Then (a) f is not one –one but onto (b) f is one –one and onto (c) f is neither one –one nor onto (d) $\int$ is many one but not onto 6. Let $f :R \to R$ be defined by $f(x)=3x$. Then (a) f is one-one onto (b) f is many one onto (c) f is one –one but not onto (d) f is neither one-one nor onto 7. . The value of $\sin^{-1} \_cos \frac{\pi}{9} /$ is 8. The value of $\cot(\sin^{-1} x)$ is 9. The domain of $\sin^{-1} 2x$ is

	10. If $\tan^{-1}(\cot\theta)=2\theta$, then θ is equal to
	11. Prepare maths lab record (5 Activities)
	12. Project on history of Mathematicians: It may include history of Indian mathematicians such as Aryabhata, Brahmgupta, Varahamihir, Sridhara, Bhaskaracharay, Ramanujan etc., and history of foreign mathematicians such as Cantor, Pythagores, Thales, Euclid, Appollonius, Descartes, Fermat, Leibnitz, Euler, Fibonac, Gauss, Newton, etc.
Computer Science (083)	1. Write a python program to convert temperature in degree Celsius to Fahrenheit. $T(\circ F)=T(\circ C)*9/5+32$
	2. WAP to calculate the simple interest.
	3. WAP to enter 2 integers and perform al arithmetic operation on them.
	4. WAP to find average of 3 numbers.
	5. WAP to check whether the number is positive, negative or 0.
	6. WAP to check whether the number is even or odd.
	7. WAP to display the appropriate message as per the colour of signal at the road crossing.
	8. WAP to create a simple calculator performing only 4 basic operations.
	9. WAP to print even numbers in a given sequence using for loop.
	10. WAP to print the table of any number.
	11. WAP to print the pattern for a number input by the user.
	1
	1 2
	1 2 3
	1 2 3 4
	1 2 3 4 5
	12. WAP to print the factorial of a given number.
	13. WAP using a user-defined function that displays sum of first n natural numbers,where n is passed as an argument.
	14. WAP using a user-defined function that accepts the first name and last name as arguments,concatenate them to get fullname and display the output.
	15. WAP using a user-defined function that calculate the area abd perimeter of rectangle.
	16. WAP using a user-defined function that count the number of times a character(passed as argument) occurs in the given string.
	17. WAP to input a string from the user and print it in reverse order.
	18. WAP to check whether the string is palindrome or not.(A string is called palindrome if it reads same backwards as forward.For eg. MADAM,KANAK)
	19. WAP that takes sentence as an input parameter where each word in the sentence is separated by a space.The function should replace each blank with a „*‟ and than return modified sentence
	20. WAP to print the following series
	• 0,1,1,2,3,5,8,13_____n.
	• 0,4,9,16,25_____n.
	3,6,9,12,15,18_____n.(WAP MEANS WRITE A PROGRAM)

Sociology (039)	Students of Class XII are requested to submit a Research based Project on any one **Contemporary Social Issue**.
	You may choose any of the following topics:
	1. Euthanasia
	2. Sex- Education
	3. Child Labor
	4. Role of Religion in Indian Society
	5. Problems of Differently-Abled
	6. Caste based Reservation in India
	7. Impact of Bollywood among Youth
	8. Adoption
	9. Role of Communication Media in Social life
	10. Peer Pressure
	11. Urbanisation
	12. Rising Divorce rate in India
	13. Domestic Violence
	14.Begging- A thriving Occupation
	15. Dowry
	Instructions-
	(a) Conduct interviews, Surveys and then pen down your observation.
	(b) With the help of your presentation prepare a beautifully decorated project file.
	(This should be hand written. Typed or printed sheets will not be considered)
	(c) Project file should be made in the given sequence-
	1. Cover page with Title
	2. Acknowledgement
	3. Certificate

	4. Index
	5. Research Question
	6. Introduction of the topic- 10- 15 pages
	7. Rationale of study
	- Why did you choose the topic?
	- Objectives of your study
	      8. Review of Literature: it should be in the following sequence:
	           - Title of the Article/Book
	           - Year of Publication
	           - Name of the Author
	           - Introduction (a small summary of the article/book)
	           - Objectives of the article/book- Main argument of the Author
	           - Results and finding- Conclusion of the Article
	           - Analysis- Your understanding of the Article
	      9. Methodology- How will you conduct your research:
	- Interview
	- Case study
	- Sample Survey
	      10. Questionnaire- The questionnaire should have 15 questions. It can include"
	           - Open-ended questions
	           - Close-ended Questions
	
	      11. Observation and Data Analysis
	           - Interpret any **ALL Questions** either through a Pie-Chart or a Bar-Diagram
	
	      12. Conclusion-
	           - It should include the inferences you draw from your research.
	
	      13. Bibliography
	- Mention all the sources you have collected the data of your research

History (027)	Students please select any one topic from given list for making project on interleaf sheets and be ready for presentation on that topic.
	    01 The Indus Valley Civilization-Archeological Excavations and New Perspectives
	    02 The History and Legacy of Mauryan Empire
	    03 "Mahabharat"- The Great Epic of India
	    04 The History and Culture of the Vedic period
	    05 Buddha Charita
	    06 A Comprehensive History of Jainism
	    07 Bhakti Movement- Multiple interpretations and commentaries.
	    08 "The Mystical Dimensions of Sufism
	    09 Global legacy of Gandhian ideas
	    10 The Architectural Culture of the Vijayanagar Empire
	    11 Life of women in the Mughal rural society
	    12 Comparative Analysis of the Land Revenue Systems introduced by the Britishers in India

13 The Revolt of 1857- Causes; Planning & Coordination; Leadership, Vision of Unity
14 The Philosophy of Guru Nanak Dev
15 The Vision of Kabir
16 An insight into the Indian Constitution

Steps involved in the conduct of the project:

Students may work upon the following lines as a suggested flow chart:

Choose a Title/Topic

Need of the Study, Objective of the Study

Hypothesis

Content -Timeline, Maps, Mind maps, Pictures, etc.

(Organization of Material/Data

Present Material/Data)

Analyzing the Material/Data for Conclusion

Draw the Relevant Conclusion

Bibliography