

CLASS - IX
PROJECT/HOLIDAY HOMEWORK

CLASS	SUBJECT	PROJECT/HOLIDAY HOMEWORK		Mode of Writing
9	BIOLOGY	Write the experiments as instructed		On Separate Copy/File for each Subject
9	CHEMISTRY	Chapter 9 - "Practical work" Recognition and Identification of gases to be done in class work copy		Class work Copy/Notebook
9	COMMERCE	COMMUNICATION		On Separate Copy/File for each Subject
9	COMPUTER	1. Attempt all 10 questions given in the pdf (link in the next box) 2. All questions to be done in PROJECT Register only. 3. No Variable Description table is required to be written for the given programs.	Click Here for Computer Project	On Separate Copy/File for each Subject
9	GEOGRAPHY	PROJECT TOPIC: POLLUTION - SOURCES, EFFECTS AND PREVENTION Page Limit: 15 - 20 pages. The first page will be ACKNOWLEDGEMENT (on this page you write a paragraph of gratitude to the people who helped you with the making of the project) Second page will be INDEX Third page will be INTRODUCTION (to the topic) From the fourth page you start writing the content Topics to be included 1.Air Pollution 2. Water Pollution 3. Soil Pollution 4. Radiation Pollution 5. Noise Pollution 6. Sources, Effects and preventive measures of the above mention Topics The second last page of the project will be CONCLUSION The last page will be BIBLIOGRAPHY (on this page you write about the sources of your project matter) Make judicious use of pictures and drawings in your project. Project should be in hand written format on file sheets. Marks will be awarded on the basis of content, creativity and neatness.		On Separate Copy/File for each Subject
9	HINDI	ESSAY:- 1- 'MANAV KE VIKAS MEIN SHIKSHA KA MAHATVA' PER APNE VICHAR PRAKAT KARTE HUE 250 SHABDON MEIN NIBANDH LIKHEN. LETTER:- 2- KISI BHI VISHAY PER EK PATRA LIKHIYE- (AUPCHARIK OR ANAUPCHARIK) GRAMMAR:- VILOM, PARYAYVACHI, MUHAVRE, VISHESHAN, BHAVVACHAK SANGYA AVM VAKYA SHUDDHI. (PER TOPIC 50 WORDS/SENTENCES) NOTE:- UPAR DIYE GAYE TOPIC KO FILE MEIN LIKH KAR, COVER CHADHA KAR JAMA KAREN.		On Separate Copy/File for each Subject
9	HISTORY/CIV	In a proper project file, covered with brown paper and pictures pasted according to the topic - THE MAURYAN EMPIRE		On Separate Copy/File for each Subject
9	LANGUAGE	Q1. Solve Test Papers 1 to 5 in your Total English book itself.(Only Q5 Applied Grammar) Q2 In a thin copy, write Notice and Email (Q3) of Test papers 1 to 5 .		On Separate Copy/File for each Subject
9	LITERATURE	English Literature project is to be done in a separate file covered with brown paper. Kindly follow the following format:- 1) Acknowledgement 2) Index 3) Content 4) Bibliography CONTENT :- SHAKESPEARE -JULIUS CAESAR Q1 a) With reference to Act 1 and 2, in not more than 100 words each , write a brief character sketch of i) Julius Caesar ii) Marcus Brutus iii) Caius Cassius. b) Write a brief scene- wise summary of Act 1 and Act 2. PROSE -CH Oliver Asks For More Q2 Read the story 'Oliver Asks For More ' and write a brief summary of it. POETRY- CH The Night Mail Q3 Write a brief summary of the poem ' The Night Mail ' .		On Separate Copy/File for each Subject
9	MATHS	Click Here for Maths Project		On Separate Copy/File for each Subject
9	PHYSICAL EDUCATION	Any two of the following games are to be written: 1. Cricket 2. Football 3. Hockey 4. Basketball 5. Volleyball 6. Badminton Headings: Knowledge of the Games, Rules of the Game, Fundamental skills and techniques, Terminology, National and international governing bodies of the games and national and international tournaments Read Only Laws of the Games of any two games from the international governing bodies		On Separate Copy/File for each Subject
9	PHYSICS	REFLECTION OF LIGHT		On Separate Copy/File for each Subject
9	ROBOTICS & AI	Instructions: 1. Answer all questions. 2. Write neatly in a project notebook or submit a typed PDF. 3. Include labeled diagrams and pictures wherever possible. 4. Use project file for answering the questions. Questions: Q1) Define Ultrasonic Sensor. How does an ultrasonic sensor measure distance? Give two applications of an ultrasonic sensor in automation. Q2) What is an IR Sensor? Describe how it detects objects or lines. Mention two common uses of IR sensors in robotics. Q3) What is an LDR (Light Dependent Resistor)? How does it respond to light? State two applications where LDRs are used in automatic systems. Q4) What is a Servo Motor? How does a servo motor control angle/position? Mention two projects where a servo motor is essential. Q5) Explain what a Soil Moisture Sensor is. How does it detect moisture content in soil? Mention two applications in agriculture or smart gardening. Q6) What is an Arduino UNO? Briefly explain how it acts as a microcontroller. Give two examples of projects where Arduino is used. Q7) Describe a Breadboard. How does it help in building circuits without soldering? Give two scenarios where a breadboard is useful in prototyping. Q8) What are Jumper Wires? Why are they used in circuit building? Mention two different types of jumper wires and their uses.		On Separate Copy/File for each Subject

CLASS - X
PROJECT/HOLIDAY HOMEWORK

CLASS	SUBJECT	PROJECT/HOLIDAY HOMEWORK		Mode of Writing
10	BIOLOGY	Write the experiments as instructed		On Separate Copy/File for each Subject
10	CHEMISTRY	Chapter 7 *Metallurgy* -Baeyer's process -Hall Heroult's process (including Diagram and chemical equations) Alloys: composition and uses		Class work Copy/Notebook
10	COMMERCE	TWO TOPICS TO BE COVERED IN A SEPARATE FILE COVERED WITH BROWN PAPER - 1. THE ROLE OF CENTRAL BANK & COMMERCIAL BANKS IN THE INDIAN ECONOMY - (Functions, Difference between Central Bank & Commercial Banks, How to open a Bank Account, Cheques and types of Cheques, ATM) 2. ISSUES OF THE ENVIRONMENT - (Causes of Destruction of the Eco-system, Global Warming, Acid Rain, The 5 R's, Bhopal Gas Tragedy, Consumer Education & Consumer Rights, Public Awareness Programmes like Van Mahotsava, Chipko Andolan, etc.)		On Separate Copy/File for each Subject
10	COMPUTER	1. Attempt all 40 questions given in the pdf (link). 2. All questions to be done in PROJECT Register only. 3. Variable Description table is compulsory to be written for every programs (at the end of every program). MODE OF WRITING: ON SEPARATE PROJECT REGISTER.	Click Here for Computer Project	On Separate Copy/File for each Subject
10	GEOGRAPHY	PROJECT TOPIC: AGRICULTURE IN CULTURE Page Limit: 15 - 20 pages. The first page will be ACKNOWLEDGEMENT (on this page you write a paragraph of gratitude to the people who helped you with the making of the project) Second page will be INDEX Third page will be INTRODUCTION (to the topic) From the fourth page you start writing the content Topics to be included 1. introduction : Meaning of Agriculture and it's importance 2. Salient features of Indian Agriculture 3. Green Revolution and it's Impact on Agriculture 4. Problems of Indian Agriculture 5. Types of Farming in India and their main features. 6: Food Crops: Rice and Wheat (mention climatic condition and Areas only) 7: Cash crops: Jute and Tea (Climatic condition, Processes involved and areas only) The second last page of the project will be CONCLUSION The last page will be BIBLIOGRAPHY (on this page you write about the sources of your project matter) Make judicious use of pictures and drawings in your project. Project should be in hand written format on file sheets. Marks will be awarded on the basis of content, creativity and neatness.		On Separate Copy/File for each Subject
10	HINDI	Project work- Complete Grammar (write 50 words from each topic discussed in the class) Letter Essay All topics given in the class (Everyone should write in proper project sheets and tagged along with the cardboard project files)		On Separate Copy/File for each Subject
10	HISTORY/CIV	TOPIC - THE UNITED NATIONS AND ITS AGENCIES		On Separate Copy/File for each Subject
10	LANGUAGE	In a separate thin copy, complete the following from the Total English book (Test Papers 1 to 5) 1. Formal and Informal Letters 2. Notice and Email 3. Question 5 (Applied Grammar) of all first five test papers are to be done in the Total English book itself.		On Separate Copy/File for each Subject
10	LITERATURE	Class 10 English Literature project is to be done in a separate file covered with brown paper. Kindly follow the following format:- 1) Acknowledgement 2) Index 3) Content 4) Bibliography SHAKESPEARE - JULIUS CAESAR Question 1. a) With reference to Act 3, 4 and 5, in not more than 150 words each, write a brief character sketch of : i) Mark Antony ii) Marcus Brutus iii) Caius Cassius. b) Write a brief scene-wise summary of Act 3, Act 4 and Act 5. Treasure Chest (PROSE) Question 2. With reference to the stories:- With the Photographer and The Elevator, write a brief character sketch of :- 1. The Photographer 2. Martin POETRY- Q3 Write a brief summary of the poem ' Haunted Houses'.		On Separate Copy/File for each Subject
10	MATHS	Click Here for Maths Project		On Separate Copy/File for each Subject
10	PHYSICAL EDUCATION	Reporting and Assignment on Cricket and Football chapter.		On Separate Copy/File for each Subject
10	PHYSICS	REFRACTION OF LIGHT		On Separate Copy/File for each Subject
10	ROBOTICS & AI	Each group will work on the allocated topic. Group 1: Weather Station System Group 2: Heat Detection Fan Group 3: Line Following Robot Group 4: Obstacle Avoidance Robot Group 5: Automated Smart Dustbin Group 6: Cleaning Bot Group 7: Automated Light Detection System The project can be a working model or a prototype.		On Separate Copy/File for each Subject

CLASS - XI

PROJECT/HOLIDAY HOMEWORK

CLASS	SUBJECT	PROJECT/HOLIDAY HOMEWORK		Mode of Writing
11	ACCOUNTS	Topics Given And Discussed in Class		On Separate Copy/File for each Subject
11	BIOLOGY	Economic Importance of Bacteria in various fields.		On Separate Copy/File for each Subject
11	CHEMISTRY	<p>The project should consist of a minimum of 30 pages (excluding title and acknowledgement sheet, and bibliography)</p> <p>The project will be covered in brown paper with the name of the college and all the details of the student mentioned on the cover like name, admission number class section etc. Extra decoration, Ornamentation will not gain marks. You have to do 1 project from the 6 topics given</p> <p>1. Natural Polymers & Synthetic Polymers Any five Natural polymer & any five Synthetic Polymers: their Characteristics, Method of preparation and Structure. preparation of synthetic polymers, structure and their uses.</p> <p>2. Types of Dyes: Methods of Preparation, Characteristics. And uses</p> <p>3. Chemicals in medicines: Antiseptics; antibiotics; Antacids; Histamines and tranquilizers, sedatives, sulpha drugs, hypnotics etc</p> <p>4. Preparation of soap, nail-polish, boot-polish, varnish, nail polish remover, shampoos and perfumes.</p> <p>5. Chemicals and Chemical processes in Forensic Studies</p> <p>6. Organic Chemistry in food science, Nutrition, and biotechnology.</p> <p>The project should be submitted in the first week of July.</p>		On Separate Copy/File for each Subject
11	COMMERCE	<p>Project topics</p> <p>1-Any joint stock company/ cooperative society--Meaning, features, merits & demerits etc (Reliance industries, Hdfc, Cipla, Infosys, Ifco)</p> <p>2-Life insurance corporation of India (L.I.C.)</p> <p>Definition, meaning, importance, merits and demerits, TYPES of Policies</p>		On Separate Copy/File for each Subject
11	COMPUTER	<p>1. Attempt all 30 questions given in the pdf (link) using user defined functions.</p> <p>2. All questions to be done in PROJECT Register only.</p> <p>3. Comments is compulsory to be written for every programs (at the end of every program).</p>	Click Here for Computer Project	On Separate Copy/File for each Subject
11	ECONOMICS	<p>Topic 1- Performance of Automobile sector post liberalization regime. Growth trend of any two automobile companies in the past 5 years and the impact of Pandemic on the automobile sector presently. Take at least one Indian company</p> <p>Topic 2- Compare the contribution made by different sectors of the economy towards GDP growth during the planning period.</p> <p>Note the following points and strictly adhere to it:</p> <p>1. The projects should be made in one file.</p> <p>2. Each project should be of 20 pages excluding the Index, Acknowledgement and Bibliography/Webliography.</p> <p>3. Only colored photographs should be pasted.</p> <p>4. Interleaf pages should be used.</p> <p>5. If statistical data or any balance sheet or graphs are given then it should be handmade.</p> <p>6. At the end of the first project, attach a sheet writing the topic 2 and then write the matter. Don't write index again as the index made in the beginning should have the details of both the topics.</p> <p>7. Conclusions for both topics should be written separately.</p> <p>8. Only one Bibliography/Webliography should be written after completing both projects.</p> <p>9. Only Pink colored cover for the file with plastic sheet on top of it is accepted for the economics project.</p>		On Separate Copy/File for each Subject
11	GEOGRAPHY	A detailed study of ANY ONE ISLAND in the world with respect to its Physical and Human aspects.		On Separate Copy/File for each Subject

11	HINDI	<p>Class-11</p> <p>Gadya Sankalan-</p> <p>'Babu chytayndas ji ne arthshastr ka kevel adhyen hi nhi kiya tha balki use apne jiven me utara bhi tha 'Putr Prem khani ke aadhar pr siddhe kijiye.</p> <p>Kavya Manjari-</p> <p>Sant Kbirdas ke 'Sakhi' me vyakte guru ki mhima, ishver ki bhakti avm smaj ke prti unke drashtikon ko udghatit karen.</p> <p>Sara Aakash-</p> <p>Smar mdhyavrgiye yuvkon ka pratinidhitve kr rha h uske jiven sangrsh ko 'Sara Aakas 'upnyash ke aadhar pr pramanit kijiye.</p> <p>Note - Diye gaye teenon vishayon mein se kisi ek per 1000 se 1500 shabdon mein ek file mein project banaen.</p>		On any Sheet/Paper for each Subject
11	HISTORY/CIV	Choose any topic from your textbook and make a project on it		On Separate Copy/File for each Subject
11	LANGUAGE	<p>Write a composition on any one of the following in about 400-450 words:</p> <p>(1) Imagine you went shopping with your parents on a festive day. The entire marketplace is buzzing with excitement and celebration. Describe the sights, sounds, smells, and feelings that made the experience unforgettable. What caught your attention the most, and how did the festive atmosphere make you feel?</p> <p>(2) Write a short story beginning with the line: At exactly 4:15 PM, after her usual twenty-minute power nap, Grandma emerged and declared, Alright, teach me the internet.</p> <p>Note: Strict adherence to the prescribed word limit (400-450 words) is mandatory.</p>		Class work Copy/Notebook
11	LEGAL STUDIES	<p>PROJECT TOPIC: Fundamental Rights and their enforcement in India</p> <p>Instructions on how Project has to be done:</p> <ol style="list-style-type: none"> 1. Page limit: 15-20 pages 2. The first page will be of Acknowledgment 3. Second page will be Index 4. Third page will be the introduction of the topic 5. Then write in detail about the topic 6. Make judicious use of pictures in your project. 7. Marks will be awarded on the basis of content, creativity and neatness of Project 		On Separate Copy/File for each Subject
11	LITERATURE	<p>Choose either one poem or one short story from the following texts and write a summary of the chosen poem or short story in approximately 1500 words:</p> <p>PERSPECTIVES (Short Stories):</p> <p>(1) Lawley Road, (2) The Landlady, (3) Most Beautiful, (4) Dream-Children: A Reverie, (5) Ratan Tata: A Life "Settling in at Cornell</p> <p>REFLECTIONS (Poems):</p> <p>(1) Father Returning Home, (2) Life Doesn't Frighten Me, (3) Sadness Comes, (4) A Prayer for My Daughter, (5) Bora Ring</p> <p>Note: Strict adherence to the prescribed word limit (approximately 1500 words) is mandatory.</p>		On Separate Copy/File for each Subject
11	MATHS	<ol style="list-style-type: none"> 1- Properties of modulus of complex number 2- Properties of argument of complex number 3- Properties of conjugate of complex number 4- Derive the relationship among cube roots of unity and their properties. 5- Define the following <ol style="list-style-type: none"> a) union and intersection of two sets b) symmetric difference of two sets c) Power' set d) D'morgan' s law(Proof also) e) Associative and Distributive law (proof also) 		On Separate Copy/File for each Subject

11	APPLIED MATHS	1- Properties of modulus of complex number 2- Properties of argument of complex number 3- Properties of conjugate of complex number 4- Derive the relationship among cube roots of unity and their properties. 5- Define the following a) union and intersection of two sets b) symmetric difference of two sets c) Power set d) De Morgan's law (Proof also) e) Associative and Distributive law (proof also)		On Separate Copy/File for each Subject
11	PHYSICAL EDUCATION	Any two of the following games are to be written: 1. Cricket 2. Football 3. Hockey 4. Basketball 5. Volleyball 6. Badminton 7. Tennis 8. Swimming 9. Athletics The following aspects should be covered for each of the two games: Rules and regulations, interpretation of the laws, duties and responsibilities of the officials and players, measurement and dimensions, terminologies, fundamental skills, strategies and formation, name and abbreviations of the National and international tournaments, diagrams and dimensions of play area and equipments related to games Read Only Laws of the Games of any two games from the international governing bodies		On Separate Copy/File for each Subject
11	PHYSICS	Notes of MOTION IN ONE DIMENSION and 25 numericals based on it		On Separate Copy/File for each Subject
11	POLITICAL SCIENCE	PROJECT TOPIC: Working of Indian Democracy: Challenges and Successes Instructions to be followed while doing the project: 1. Page limit: pages-15 to 20 pages 2. The first page will be of Acknowledgment 3. Second page will be Index 4. Third page will be the introduction of the topic 5. Then write in detail about the topic 6. Make judicious use of pictures in your project. 7. Marks will be awarded on the basis of content, creativity and neatness of Project		On Separate Copy/File for each Subject

CLASS - XII

PROJECT/HOLIDAY HOMEWORK

CLASS	SUBJECT	PROJECT/HOLIDAY HOMEWORK		Mode of Writing
12	ACCOUNTS	TOPICS GIVEN AND DISCUSSED IN CLASS		On Separate Copy/File for each Subject
12	CHEMISTRY	Solve 30 ISC numericals of the lesson 'Solutions' in the classwork copy. Project to be done as instructed in the class.		Class work Copy/Notebook
12	COMMERCE	Projects 1-LATEST BANKING TRENDS AND STUDY THE SOURCES OF RECRUITMENT AND STEPS INVOLVED IN THE SELECTION PROCEDURE ADOPTED BY TWO COMPANIES OF THE SAME INDUSTRY 2-CONSUMER PROTECTION----JAGO GRAHAK JAGO -- NEEDS, RIGHTS RESPONSIBILITY, METHODS OF CONSUMER PROTECTION,ROLE OF CONSUMER ORGANISATIONS AND NGOs		On Separate Copy/File for each Subject
12	COMPUTER	1. Attempt all 30 questions given in the pdf (link) using user defined functions. 2. All questions to be done in PROJECT Register only. 3. Comments is compulsory to be written for every programs (at the end of every program).	Click Here for Computer Project	On Separate Copy/File for each Subject
12	ECONOMICS	Topic 1- Comparison of different market structures (perfect competition, monopoly, oligopoly). - Case studies on local businesses in different market structures. Topic 2- Causes and potential solutions for adverse balance of payments Note the following points and strictly adhere to it: 1. The projects should be made in one file. 2. Each project should be of 20 pages excluding the Index, Acknowledgement and Bibliography/Webliography. 3. Only colored photographs should be pasted. 4. Interleaf pages should be used. 5. If statistical data or any balance sheet or graphs are given then it should be handmade. 6. At the end of the first project, attach a sheet writing the topic 2 and then write the matter. Don't write index again as the index made in the beginning should have the details of both the topics. 7. Conclusions for both topics should be written separately. 8. Only one Bibliography/Webliography should be written after completing both projects. 9. only pink coloured paper and a plastic sheet on top should be used to cover the file.		On Separate Copy/File for each Subject
12	GEOGRAPHY	Chapter 2- Representation of Relief and Contours to be Written in PRACTICAL FILE.		On Separate Copy/File for each Subject
12	HINDI	Class-12 Gadya sankalan- 'Ramdhari singh dinkar ke anusar sanskrit sbhyeta ki apeksha mhin chij h' Sbhyeta avm Sanskrit ki, vishestavo ko btate huve ise siddhe kijiye. Kavya Manjari- Gosvami Tulshidas ji ne shri Ram ko ptite paven kha h Vinaypatrika ke aadhar pr iske pratikon ki anthhkatha ka varnen karte huve vistar se likhiye. Sara Aakash- Sara Aakash ki 'Prbha' ek aadersh bhartiye nari ke rupe men upnyash me apne ko prstute karti h kya aap ise bat se shemat han tark sahit uttar dijiye. Note - Diye Gaye teenon vishayon mein se kisi ek per 1000 se 1500 shabdon mein ek file mein project bana kar jama karen.		On any Sheet/Paper for each Subject
12	HISTORY/CIV	Choose any topic from your textbook and make a project on it		On Separate Copy/File for each Subject
12	LANGUAGE	PROJECT WORK: You are required to write a composition of approximately 500 words. Choose any one of the following topics for your assignment: (1) Description of a Sporting Event (2) An Autobiographical Experience (3) Review of a Television Serial Note: Strict adherence to the prescribed word limit is mandatory.		On Separate Copy/File for each Subject

12	LEGAL STUDIES	<p>TOPIC 1: Important legal maxims a) Prepare a chart; Write the maxims on one side and their meaning on the other side b) Explain any 15 maxims with the help of illustrations</p> <p>TOPIC 2 1) Rylands v. Fletcher case. 2) Rule of Absolute liability in M.C. Mehta case a. Explain the role of strict and absolute liabilities referring to the above case. b. What is the significance of these cases under the law of tort?</p> <p>Instructions on how the Project has to be done:</p> <p>Page limit: 25-30 pages The first page will be of Acknowledgment The second page will be the Index The third page will be the introduction of the topic Then write in detail about the topic Make judicious use of pictures in your project. Marks will be awarded based on content, creativity, and neatness of the Project</p>		On Separate Copy/File for each Subject
12	LITERATURE	<p>PROJECT: Choose either one short story or poem from the following texts and write a summary of the selected piece in approximately 1500 words. PRISM (Short Stories): (1) There Will Come Soft Rains, (2) Atithi (Guest), (3) The Cookie Lady, (4) Indigo, (5) The Medicine Bag RHAPSODY (Poems): (1) Death Be Not Proud, (2) Telephone Conversation, (3) Tithonus, (4) Beethoven, (5) Small Towns and the River Note: Strict adherence to the prescribed word limit is mandatory.</p>		On Separate Copy/File for each Subject
12	MATHS	Project Topic- Matrix and Determinants		On Separate Copy/File for each Subject
12	PHYSICAL EDUCATION	Football (All Units as prescribed by CISCE) Cricket (All Units as Prescribed by CISCE)		On Separate Copy/File for each Subject
12	PHYSICS	Prepare notes of solid and semiconductor devices		On Separate Copy/File for each Subject