

RAJA RAMMOHAN ROY ACADEMY, DEHRADUN
SUMMER ASSIGNMENT AND PROJECT WORK
SESSION 2023-24
CLASS - IX

Subject	Project/ Assignment
Eng. Lang.	<p>Write any two compositions (300-350 words each).</p> <ol style="list-style-type: none"> Narrate an incident when you had difficulty travelling from one place to another. Mention what made it difficult for you to travel and where did you go? Write an original short Story that begins with the words: "It was raining hard that night. In my hurry to get into the house, I didn't notice the black car parked across the road. I realized something was wrong when....." Which do you prefer- morning, afternoon, evening or night? Describe your favourite time of the day. What are the sights, sounds, smells and feelings that you associate with your favourite time of the day? Why do you like this part of the day better than the others.
Eng. Lit.	<ol style="list-style-type: none"> Write the historical background of the play 'Julius Caesar' by William Shakespeare. What does the notice in the story 'Oliver Asks For More' reflect about about the treatment of children in Victorian times? Why did Charles Dickens want to highlight the suffering of children? Critically analyse the poem 'A Work of Artifice' with the opinion that women need to break away from shackles of gender stereotypes that have continued to plague our society from time immemorial.
Hindi	<ol style="list-style-type: none"> दहेज प्रथा एक सामाजिक बुराई है। दहेज प्रथा को बढ़ावा मिलने का कारण व दहेज न देने पर होने वाले अत्याचार का वर्णन करते हुए, इस बुराई को नष्ट करने में सहयोग करने वाले सुझाव भी लिखिए। 'काकी' पाठ के आधार पर किसी बच्चे के जीवन की ऐसी ही घटना के विषय में अपने विचार लिखिए व बताइए, उस बच्चे के चोरी या कोई गलती ना करने पर भी माता-पिता ने बच्चे को डांटा, बच्चे की क्या प्रतिक्रिया थी। बात अठन्नी की, कहानी का उद्देश्य लिखिए मीनू व अमित का चरित्र- चित्रण लिखिए
Mathematics	<p>Make a power point presentation on any one of the following topics: a. Real numbers b. Application of trigonometry c. Concept of infinity</p> <ol style="list-style-type: none"> Choose any one of the following topics: a. Magic square: Fill a square grid with distinct integers such that each cell contains a different integer and the sum of the integers in each row, column and diagonal is equal. b. Construct a square root spiral. c. Design a crossword puzzle using mathematical terms / words.
Physics	<p>Prepare a project report on the topic Motion in One Dimension. Guidelines for making the project are as follows: -</p> <ol style="list-style-type: none"> Project report should be approximately 25 to 30 pages covering the following topics :- A. Rest and motion B. Terms related to motion: - i. Distance and displacement ii. Speed and velocity iii. Acceleration and retardation iv. Acceleration due to gravity C. Graphical representation of motion: - i. Displacement- time graph ii. Velocity- time graph iii. Acceleration- time graph D. Graphical representation of acceleration due to gravity in upward and downward motion. E. Equations of a Uniformly accelerated motion. Project report should contain relevant diagrams and figures wherever required. The useful information can be collected from your prescribed book, reference books or from the internet.

Chemistry	<p>1. Prepare a project file based on following experiments: (a) Effect of heat on various compounds. (b) To recognize and identify the unknown gases. (c) To identify the metal in the unknown substance using flame test.</p> <p>2. Learn valency chart thoroughly.</p> <p>3. Paste I Unit Test Paper in the notebook and solve it again.</p> <p>4. Practice balancing of word equations.</p> <p>5. Learn all the chapters done in the class.</p>
Biology	<p>1. Make a project on any one of the given topic in project file and cover it with bottle green glaze paper----- a. Pollination and Fertilization b. Nutrition</p> <p>2. Revise chapters -- - 1,2 and 3 .</p>
History/Civics	<p>The Indian Constitution protects the rights of children, women, minorities and weaker sections' Elaborate on the basis of a case study. Make a project on the above topic with pictures to correlate your given research.</p>
Geography	<p>Make a project on any one of the topic given below:</p> <ol style="list-style-type: none"> 1. Make a working model OR chart on any one of the following ----- Structure of the Earth, Revolution of the Earth (Main Factor in Determining Seasons), Rock Cycle, Volcano, Courses of River, Types of Pollution Or Collarge of types of Pollution, Tides. 2. Collect information on global environmental issues and problems and communicate your findings through appropriate modes (posters, charts, collages and PowerPoint presentation). 3. A record file having any three of the following exercises will be maintained. <ol style="list-style-type: none"> (a) Uses of important types of maps. (b) Directions and how to identify them - an illustrative diagram. <p>Reading and using statement of scale, graphic scale and scale shown by representative fraction method. (No drawing work, only explaining their meanings).</p> <ol style="list-style-type: none"> (d) Drawing and recognising forms of important contours viz. valleys, ridges, types of slopes, conical hill, plateau, escarpment and seacliff.
Economics Application	<p>1 Revise all the chapters discussed in the class.</p> <p>2 Prepare a question bank of 50 questions from the chapters completed in the class in the following manner----- a) 2 marks - 25 questions b) 8 marks - 25 question</p>
Physical Education	<p>Prepare a project file on any two games or sports of your choice.</p>
Art	<p>Draw and colour 5 - 5 Sheets each of Object study and Nature study.</p>
Home Science	<p>(1) 10 recipes with picture. (2) listing food eaten on one day and classify them into food groups</p>
Computer Application	<p>Make power point presentation on any one of the following topics.(15 to 20 slides)</p> <ol style="list-style-type: none"> 1. Data protection on the Internet. 2. Cyber Crime and Cyber security. 3. Types of Data in Java Language