



Summer Vacation Holiday Home Work (2025-26)

Class- XII

Dear seemaxites

The much awaited summer vacations are round the corner! Holidays are the time for introspection and vacations are of course a time to reinvigorate and revive. In fact, the summer vacations are synonymous with fun, frolic and exploring new places. They are the happiest days in a student's life.

Summer is indeed a great time to learn some fundamentals and lay the foundation for future learning.

Dear students,

Holidays are a great opportunity to relax and rewind by indulging in the activities that are pleasurable and at the same time educative. This is the time when skills can be nurtured and developed in your soft and evolving brains. So, during this period you will get to learn and do your work independently, without the support of your immediate teachers and classmates.

Your school has come up with a plethora of activities through the holiday homework where in you will get a chance to chisel your creativity and innate talent. Apart from spending quality time with your family members, engage yourself in recreational activities like:

Reading good books newspapers in order to stay updated and to enhance vocabulary.

Connecting with nature like gardening, observing growth

Of plants and making manure from kitchen waste, feeding the birds and animals, observing stars and moon.

Writing your daily diary, record your experiences and accomplishments.

Listen to the stories and experiences of your elders, success stories of people who never gave up. Pursue your hobbies....sing, dance, paint, cook, capture, write.....you never know what might prove to be the turning point in your life. Under the guidance of your parents choose the life skill activities (relevant to your age) and try to inculcate them in yourself.

Life Skills Activities:

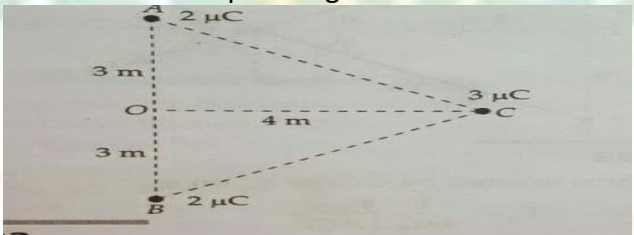
- 1. Table Lay Out: From putting a napkin in the lap to clearing the plate off the table and everything in between, the child should learn the table manners.*

2. *Be a Folding Helper: Take help from mom to fold your clothes and become a folding helper at home.*
 3. *Cupboard Helper: Sit with mom and organize your cupboard neatly.*
 4. *Laying the Shoe Rack: Take help from the elders, clean your shoes properly and keep them well organized in your rack.*
 5. *Prepare Lemonade: Squeeze the lemons, add some sugar syrup and mix the lemonade.*
Serve it to your parents and grandparents.
 6. *Learn to do Gardening: Take an active participation in the growing of plants and water them daily.*
 7. *Cleaning and other household chores: Involve yourself in household chores such as doing the laundry, making your bed, cleaning your room etc.*
 8. *Learn to manage time: Allot specific amount of time for play and work.*
- Last but not the least; be sure not to fizzle when the summer starts to sizzle. May this summer vacation help rejuvenate you for the next session of school. We hope you all have a rewarding summer and hopefully, you will quickly develop a daily mantra of “What can I learn or discover today?”*

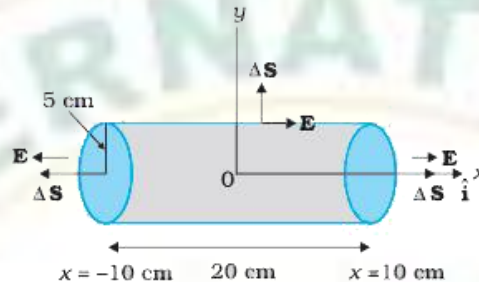
Stay safe Stay happy

S. No.	Subject	Assignment
1	English	<p>Job Application /Letter for Job</p> <p>1. You have realized the necessity of education and financial independence of women for their family, society and in turn for the nation. Write a letter to the Editor, 'The National Times', highlighting your ideas on the importance of education of women leading to a better status for them. You are Tarun/Taruna, B-7/9, Mall Road, Delhi. (120-150 words)</p> <p>2. National Book Trust organised a week-long book fair at Anna Grounds, Chennai. You visited the fair and bought a few books. You were pleased with the arrangements, enthusiasm of the visitors and the fact that books have not yet lost their relevance in the world of the Internet. Write a letter in 120-150 words to the editor of a local newspaper to express your feelings. You are Lalit/Latha, 112, Mount Road, Chennai.</p> <p>3. Lack of job opportunities in rural areas is forcing people to migrate to cities. Every big city thus has a number of slums in it. Life in these slums is miserable. Write a letter in 120-150 words to the editor of a national newspaper on how we can improve the living conditions in these</p>

	<p>slums. You are Karan/Karuna, M114, Mall Road, Delhi.</p> <p>4. When cricket teams go abroad they are allowed to take their wives, even friends, along with them. Does this fact distract them or help them to focus on their game in a better way? Why don't we allow our athletes to enjoy the same privilege? Write a letter to the editor of a national daily in 120-150 words, giving your views on the issue. You are Navtej/Navita, M-114, Mount Kailash, Kanpur.</p> <p>5. Sunshine Public School, Pune requires two sports coaches (one male and one female). Each should be a degree holder in physical education as well as a SAI certified coach in athletics. You have seen their advertisement and you know that you have these qualifications. Write an application in 120-150 words along with your resumé. You are Praveen/Praveena, M-114, Najafgarh, Delhi.</p> <p>5. Write an application (including a resumé) in 120-150 words for the post of a receptionist advertised in a national newspaper by JKL Publishers, Peshwa Road, Pune. You are Karuna, M114, Mall Road, Pune, a graduate from SNTD University and have done a Secretarial Practice Course from YWCA, Mumbai.</p> <p>6 .You are Shilpa/Sameer living in Bengaluru. You have just completed your studies and are looking for a job. While browsing through the Hindustan Times of 08.05.2018, you come across the following advertisement. Choose a post for which you think you are suitable. Send your application in response to this advertisement</p> <p>An upcoming food processing unit in Golagaon requires the following staff :</p> <p>Food technologist: 2 yrs. degree/diploma in food technology having 1-2 yrs. lab experience.</p> <p>Accountant: B. Com. with minimum experience of 4-5 years in a manufacturing concern and conversant with sales tax laws.</p> <p>Receptionist: Young female candidates fluent in English with good communications skills and proficiency in computer/Net surfing with 2-3 years' experience.</p> <p>Please send your detailed resume within seven days to Manager, Fancy Foods, Sector 68 , Golagaon</p> <p>7. You see a classified advertisement in the newspaper inviting applications for the post of a Sales Executive in a reputed bank. Write a letter with bio-data in about 120-150 words to the HR Manager, HABC Bank, Lajpat Nagar, New Delhi, applying for the post advertised. You are Avani/Aviral of 120, Kirti Nagar, Delhi.</p> <p>8. Bal Vidya Public School, Bhilai, urgently requires a post-graduate teacher to teach Political Science for which they have placed an advertisement in The Bhilai Express. You are Sanjay/Sanjana Sharma from 21, Vasant Marg, Bhilai. Draft a letter including a CV, applying for the advertised post. (120-150 words)</p> <p style="text-align: center;">Flamingo / Vistas</p> <p>1 : Write the summary of the lesson of “The Tiger king”.</p> <p>2 : Write the summary of the lesson “ Lost Spring “ (Stories of Stolen Childhood) “</p>
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		<p>3 : Write the summary of the poem “Keeping Quiet “.</p> <p>4 : Write the summary of the poem “ A Thing of Beauty”.</p> <p>5 : Write the summary of the poem “A Roadside Stand”.</p> <p>6 : Write the summary of the poem “ Aunt Jennifer’s Tigers”.</p>
2	Maths	<p>Revision Ch.1,2,3,4</p> <p>Prepare a chart at any topic of maths</p> <p>Lab Manual Activity 1,2,3,</p> <p>Solve the Assignment will be provide by subject teacher.</p>
3	Physics	<p><u>General Instructions:</u></p> <p>1. Do Holiday HW in Extra Question notebook (give heading SUMMER VACATION Holiday home work).</p> <p>2. Project / Homework will be assessed and awarded by an appreciation certificate on the basis of neatness and creativity.</p> <p>3. You may use different colour A4 size sheets for Biography project file.</p> <p>4. Design an attractive cover for your Holiday homework notebook and project.</p> <p>5. Make your ward revise assessment syllabus to be held in July.</p> <p>6. Holiday Homework needs to be submitted on the first day of reopening of school.</p> <p><u>CHAPTER -1: ELECTRIC CHARGES AND FIELDS</u></p> <p>1. A free pith-ball A of 8 g carries a positive charge of $5 \times 10^{-8} \text{C}$. What must be the nature and magnitude of charge that should be given to a second pith-ball B fixed at 5 cm below the former ball so that the upper ball is stationary?</p> <p>2. Two equal positive charges each of $2 \mu\text{C}$ interact with a third positive charge of $3 \mu\text{C}$ situated as shown. Calculate the magnitude and direction of force on the $3 \mu\text{C}$ charge.</p>  <p>3. An electric field is uniform, and in the positive x direction for positive x and uniform with the e magnitude in the negative x direction for negative x. It is given that A right circular cylinder of length 20 cm and radius 5 cm has its centre at the origin and its axis along the x-axis so that one face is at $x = +10 \text{ cm}$ and the other is at $x = -10 \text{ cm}$) What is the net outward flux through each flat face ?ii) What is the flux through the side of the cylinder ?iii) What is the net outward flux through the cylinder ?</p>

iv) What is the net charge inside the cylinder.

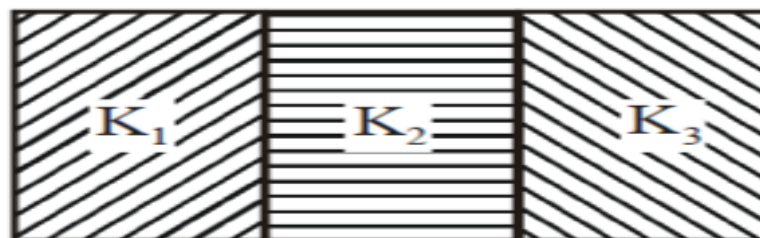


4. Derive an expression of electric field intensity at a point on equatorial axis of an electric dipole.
5. Two-point charges $+q$ and $-2q$ are placed at the vertices B and C of an equilateral triangle ABC of side a . obtain the expression for magnitude and direction of resultant electric force at the vertex A due to these two charges.
6. Two-point charges $+q$ and $-2q$ are placed at the vertices B and C of an equilateral triangle ABC of side a . Obtain the expression for magnitude and direction of resultant electric force at the vertex A due to these two charges.
7. Show that the force on each plate of a capacitor has a magnitude equal to $QE/2$, where Q is the charge on the capacitor and E is the magnitude of the electric field between the plates of the capacitor. Explain the origin of factor $\frac{1}{2}$.
8. Two small identical electrical dipoles AB and CD, each of dipole moment ' p ' are kept at an angle of 120° as shown in Fig. What is the resultant dipole moment of this combination? If this system is subjected to electric field (E) directed along $+X$ direction, what will be the magnitude and direction of the torque acting on this.
9. What are the magnitude and direction of electric field at centre of the square in fig, if $q=1.0 \times 10^{-8} \text{ C}$ and $a=5\text{cm}$.
10. Two charges $-q$ are each fixed separated by a distance $2d$. A third charge q of mass m placed at the midpoint is displaced slightly by x ($x \ll d$) perpendicular to the line joining the two fixed charges. Show that q will perform simple harmonic oscillation of time period

$$T = [8\pi^3 \epsilon_0 m d^3 / q^2]^{1/2}$$

CHAPTER – 2 : ELECTRIC POTENTIAL AND CAPACITANCE

1. Can a metal sphere of radius 1 cm hold a charge of 1 coulomb? Justify your answer?
2. Is the electrostatic potential necessarily zero at a point where the electric field strength is zero? Give an example to illustrate your answer.
3. Work done by an electrostatic field is independent of the path followed between two points. Justify?
4. Define the term polarisation of a dielectric medium. Write its S.I unit.
5. The space between the plates of a parallel plate capacitor of capacitance C is filled with three dielectric slabs of equal thickness as shown in Fig. If the dielectric constants of the three slabs are K_1 , K_2 , and K_3 find the new capacitance.



6. A capacitor is charged to potential V_1 . The power supply is disconnected and the capacitor is connected in parallel to another uncharged capacitor. i) Derive the expression for the common potential of the combination of capacitors. ii) Show that total energy of the combination is less than the sum of the energy stored in them before they are connected. 7. Deduce the expression for the potential energy of a system of two charges q_1 and q_2 located r_1 and r_2 respectively in an external field. 8. A $2\mu\text{F}$ capacitor with a dielectric slab ($K=5$) between its plates is charged to 100V and then isolated. (i) What will be the p.d if the dielectric is removed? (ii) How much work would be done in removing the dielectric? 9. Four point charges $+1\mu\text{C}$, $+1\mu\text{C}$, $-1\mu\text{C}$ and $-1\mu\text{C}$ are placed at the corners of A, B, C and D of a square each of side 0.1m . (i) Calculate potential at the centre O of the square. (ii) If E is the middle point of BC, what is the work done in carrying an electron from O to E? 10. An infinitely long positively charged wire has a linear charge density λcm^{-1} . An electron is revolving around the wire as its centre with a constant velocity in the circular plane perpendicular to the wire. Deduce the expression for KE of the electron. Plot a graph of KE as a function of charge density λ .

Topics for Physics investigatory project

- To observe diffraction of light due to a thin slit.
- To build simple electric motor or electromagnetic crane and understand the working of electromagnetism.
- To understand working of a rectifier.
- To study the phenomenon of diffraction of light.
- To study about photoelectric effect.
- To find resistivity of wires in different metals by using OHM'S LAW.
- To study parallel and series combination in capacitors.
- To study charging and discharging of a capacitor.
- To study various factors on which the internal resistance/EMF of a cell depends.
- To find the refractive indices of (a) water (b) oil (transparent) using a plane mirror, an equiconvex lens (made from a glass of known refractive index) and an adjustable object needle.
- To investigate the relation between the ratio of (i) output and input voltage and (ii) number of turns in the secondary coil and primary coil of a self-designed transformer.
- To investigate the dependence of the angle of deviation on the angle of incidence using a hollow prism filled one by one, with different transparent fluids.

		<ul style="list-style-type: none"> • To study the factor on which the self-inductance of a coil depends by observing the effect of this coil, when put in series with a resistor/(bulb) in a circuit fed up by an A.C. source of adjustable frequency. • Full Wave Rectifier. • Thermoelectric Generator. • AC Generator. • Optical Fiber.
4	Chemistry	<p>Q1. Do previous years questions from chapters 1-2.</p> <p>Q2. Do NCERT exercises of chapter 1-2.</p> <p>Q3. Make an investigatory project from given topic according to your roll no.</p> <p>Topics for Biology investigatory project</p> <p>Roll No. 1,6,11,16,21,26,31,36 Study of oxalate ion contents in guava fruit</p> <p>Roll No. 2,7,12,17,22,27,32,37 Study of the quantity of casein present in different samples of milk</p> <p>Roll No. 3,8,13,18,23,28,33,38 Preparation of soyabean milk and its comparison with natural milk</p> <p>Roll No. 4,9,14,19,24,29,34,39 Study of adulterants in food stuffs</p> <p>Roll No. 5,10,15,20,25,30,35,40 Study essential oils presents in different spices</p>
5	Biology	<p>Q1. Do previous years questions from chapters 1-4.</p> <p>Q2. Do NCERT exercises of chapter 1-4.</p> <p>Q3. Make a working or nonworking models or Chart from any related topic from subject.</p> <p>Q4. Do practice of given assignment questions.</p> <p>Q5. Make an investigatory project from given topic according to your roll no.</p> <p>Topics for Biology investigatory project</p> <ol style="list-style-type: none"> 1. Pollination adaptations 2. Seed dispersal mechanisms and significance of dispersal 3. Outbreeding devices in flowering plants and its significance 4. Polysystic ovarian syndrome 5. Reproductive health/ Sexually Transmitted Diseases 6. Genetic Disorders 7. Chromosomal disorders

	<p>8.Cystic fibrosis</p> <p>9.Colour Blindness</p> <p>10.Haemophilia</p> <p>11. Sickle cell anaemia</p> <p>12. Thalassemia</p> <p>13. Congenital defects- causes and possible remedies</p> <p>14.Operon concept</p> <p>15. Human Genome Project</p> <p>16.DNA Fingerprinting and its applications</p> <p>17. Evolution</p> <p>18. Malaria: Treatment and prevention</p> <p>19. Cancer (can take specific Cancer)</p> <p>20. AIDS</p> <p>21. Immunity</p> <p>22. Allergies</p> <p>23. Auto- immune diseases (Rheumatoid Arthritis)</p> <p>24. Drugs and their abuse</p> <p>25. Alcohol abuse</p> <p>26. Microbes in human welfare</p> <p>27. Tools of biotechnology</p> <p>28. Global warming</p> <p>29. Applications of biotechnology</p> <p>30. RNA interference</p> <p>31. Gene therapy</p> <p>32. Transgenic animals</p> <p>33. Responses of living organisms to abiotic factors in environment.</p> <p>34. Adaptations in living organisms</p> <p>35. Population interactions</p> <p>36. Ecosystem services: How much do we care?</p> <p>37. Biodiversity and conservation practices in Indian culture</p>
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		<p>38. Habitat destruction and biodiversity loss</p> <p>39. Biodiversity and in situ and ex situ conservation</p> <p>40. Medicinal plants in our surroundings.</p> <p>Note: All work should be done in separate notebook or on assignment papers. Project must be in assignment file.</p> <p>First four pages (Front page, Certificate, Acknowledgement and index) and last page (Bibliography) should be printed or typed.</p>
6	Computer Science	<p>Q1 Read a text file line by line and display each word separated by # symbol.</p> <p>Q2 Read a text file and display the number of vowels/ consonants/ uppercase/ lowercase characters in the file.</p> <p>Q3 Remove all the lines that contain the character `a' in a file and write it to another file.</p> <p>Q4 Write a random number generator that generates random numbers between 1 and 6 (simulates a dice)</p> <p>Q5 Write a Python program to implement a stack and queue using a list data-structure.</p> <p>(Database related program)</p> <p>Q1 Write a Program to connect with database.</p> <p>Q2 Create a student table and show table.</p> <p>Q3 Insert student records into student table</p> <p>Q4 To add a new column city in the above table with appropriate data type</p> <p>Note- Written work should be done in assignment paper/ separate notebook.</p>
7	Physical Education	<p>1-Daily physical Fitness schedule to be followed:</p> <p>Boys: Run & walk test, Skipping, Bent Knee sit-ups, Push-ups, Free hand exercise & Pull-ups & shuttle Run. (Do write in chart paper.)</p> <p>Girls: Run & walk test, Skipping, Bent Knee sit-ups, Modified push-ups, Free hand exercise & shuttle Run. (Do write in chart paper.)</p> <p>2-Write the procedure, benefits and contraindications for any two asanas for each lifestyle diseases (Obesity, Diabetes & Hypertension in Chart papers.</p> <p>3-Draw a field / court and equipment rules terminology. Do use of thermacoal Sheets. (Any one game of your choice from the IOA recognized sport/games)</p> <p>4-Draw a sports person colorful. (Do use of chart paper.)</p> <p>5-Draw the fixtures of these teams on the knockout basis 23 & 20 with all steps. (Do Use A4 size sheets)</p> <p>6-Draw the fixtures of these teams on the league (Cyclic, Staircase & Tabular methods) basis 10 & 11 with all steps. (Do Use A4 size sheets)</p> <p>GUIDELINES:</p>

		<p>❑ Use A4 size sheets & Charts only.</p> <p>❑ The project could be in 10 – 20 pages(Max)</p> <p>❑ Must be hand written only</p> <p>❑ Must include a creative cover page and Index.</p> <p>❑ Hard copies in File/Folders.</p> <p>❑ Innovation and Creativity also carries marks.</p> <p>❑ It is an individual project and marks will be awarded in Half Yearly and Annual Examination during practical Examination.</p>
8	Accountancy	Do unsolved practical problems of NCERT Book chapter 1, 2 3 complete and Chapter 4 (till explain in class) In separate notebook.
9	Economics	1. Prepare project file as per discussion in class, topics are allotted to all of you in the class.
10	Business Study	<p>1. Students are advised to select one unit out of four (as per discussion in the class) and are required to make only ONE project from the selected unit (topic allotted in the class). (Consist of one project of 20 marks)</p> <p><u>I. Project One: Elements of Business Environment</u></p> <p>students select any one element from the following:</p> <p>1. Changes witnessed over the last few years on mode of packaging and its economic impact. The changes in transportation of fruits and vegetables such as cardboard crates being used in place of wooden crates, etc. Reasons for above changes.</p> <p>a) Milk being supplied in glass bottles, later in plastic bags and now in tetra-pack and through vending machines.</p> <p>b) Plastic furniture [doors and stools] gaining preference over wooden furniture.</p> <p>c) The origin of cardboard and the various stages of changes and growth.</p> <p>d) Brown paper bags packing to recycled paper bags to plastic bags and cloth bags.</p> <p>e) Re use of packaging [bottles, jars and tins] to attract customers for their products.</p> <p>f) The concept of pyramid packaging for milk.</p> <p>g) Cost being borne by the consumer/manufacturer.</p> <p>h) Packaging used as means of advertisements.</p> <p>2. The reasons behind changes in the following:</p> <p>Coca – Cola and Fanta in the seventies to Thums up and Campa Cola in the eighties to Pepsi and Coke in nineties.</p> <p>Students gather information about the times when India sold Coca Cola and Fanta which were being manufactured in India by the foreign companies.</p> <p>The students may be asked to enquire about</p> <p>a) Reasons of stopping the manufacturing of the above mentioned drinks in India THEN.</p> <p>b) The introduction of Thums up and Campa cola range.</p>

- c) Re entry of Coke and introduction of Pepsi in the Indian market.
 - d) Factors responsible for the change.
 - e) Other linkages with the above.
 - f) Leading brands and the company having the highest market share.
 - g) Different local brands venturing in the Indian market.
 - h) The rating of the above brands in the market.
 - i) The survival and reasons of failure in competition with the international brands.
 - j) Other observations made by the students
3. Changing role of the women in the past 25 years relating to joint families, nuclear families, women as a bread earner of the family, changes in the requirement trend of mixers, washing machines, micro wave and standard of living.
 4. The changes in the pattern of import and export of different Products.
 5. The trend in the changing interest rates and their effect on savings.
 6. A study on child labour laws, its implementation and consequences.
 7. The state of 'anti plastic campaign,' the law, its effects and implementation.
 8. The laws of mining /setting up of industries, rules and regulations, licences required for running that business.
 9. Social factors affecting acceptance and rejection of an identified product. (Dish washer, Atta maker, etc)
 10. What has the effect of change in environment on the types of goods and services?
- The students can take examples like:
- a) Washing machines, micro waves, mixers and grinder.
 - b) Need for crèche, day care centre for young and old.
 - c) Ready to eat food, eating food outside, and tiffin centres.
11. Change in the man-machine ratio with technological advances resulting in change of cost structure.
 12. Effect of changes in technological environment on the behaviour of employee.

II. Project Two: Principles of Management

The students are required to visit any one of the following:

1. A departmental store.
2. An Industrial unit.
3. A fast food outlet.
4. Any other organisation approved by the teacher.

They are required to observe the application of the general Principles of management advocated by Fayol.

Fayol's principles

1. Division of work.
2. Unity of command.
3. Unity of direction.

4. Scalar chain
5. Espirit de corps
6. Fair remuneration to all.
7. Order.
8. Equity.
9. Discipline
10. Subordination of individual interest to general interest.
11. Initiative.
12. Centralisation and decentralisation.
13. Stability of tenure.
14. Authority and Responsibility

OR

They may enquire into the application of scientific management techniques by F.W. Taylor in the unit visited.
Scientific techniques of management.

1. Functional foremanship.
2. Standardisation and simplification of work.
3. Method study.
4. Motion Study.
5. Time Study.
6. Fatigue Study
7. Differential piece rate plan.

III. Project Three: Stock Exchange

The purpose of this project is to teach school students the values of investing and utilising the stock market. This project also teaches important lessons about the economy, mathematics and financial responsibility.

The basis of this project is to learn about the stock market while investing a specified amount of fake money in certain stocks. Students then study the results and buy and sell as they see fit.

This project will also guide the students and provide them with the supplies necessary to successfully monitor stock market trends and will teach students how to calculate profit and loss on stock.

The project work will enable the students to:

- ☐ understand the topics like sources of business finance and capital market
- ☐ understand the concepts used in stock exchange
- ☐ inculcate the habit of watching business channels, reading business journals/newspapers and seeking information from their elders.

The students are expected to:

	<p>a) Develop a brief report on History of Stock Exchanges in India. (your country)</p> <p>b) Prepare a list of at least 25 companies listed on a Stock Exchange.</p> <p>c) To make an imaginary portfolio totalling a sum of Rs. 50,000 equally in any of the 5 companies of their choice listed above over a period of twenty working days.</p> <p>The students may be required to report the prices of the stocks on daily basis and present it diagrammatically on the graph paper.</p> <ul style="list-style-type: none"> ☐ They will understand the weekly holidays and the holidays under the Negotiable Instruments Act. They will also come across with terms like closing prices, opening prices, etc. ☐ During this period of recording students are supposed to distinctively record the daily and starting and closing prices of the week other days under the negotiable instrument act so that they acquire knowledge about closing and opening prices. ☐ The students may conclude by identifying the causes in the fluctuations of prices. Normally it would be related to the front page news of the a business journal, for example, ☐ Change of seasons. ☐ Festivals. ☐ Spread of epidemic. ☐ Strikes and accidents ☐ Natural and human disasters. ☐ Political environment. ☐ Lack of faith in the government policies. ☐ Impact of changes in government policies for specific industry. ☐ International events. ☐ Contract and treaties at the international scene. ☐ Relations with the neighbouring countries. ☐ Crisis in developed countries, etc. <p>1.The students are expected to find the value of their investments and accordingly rearrange their portfolio. The project work should cover the following aspects; 1. Graphical presentation of the share prices of different companies on different dates.</p> <p>2. Change in market value of shares due to change of seasons, festivals, natural and human disasters.</p> <p>3. Change in market value of shares due to change in political environment/ policies of various countries/crisis in developed countries or any other reasons</p> <p>4. Identify the top ten companies out of the 25 selected on the basis of their market value of shares.</p> <p>It does not matter if they have made profits or losses.</p>				
	<table border="1"> <tr> <td colspan="2">IV. Project Four: Marketing</td></tr> <tr> <td>1. Adhesives</td><td>39. Microwave</td></tr> </table>	IV. Project Four: Marketing		1. Adhesives	39. Microwave
IV. Project Four: Marketing					
1. Adhesives	39. Microwave				

		<ol style="list-style-type: none"> 2. Air conditioners 3. Baby diapers 4. Bathing Soap 5. Bathroom cleaner 6. Bike 7. Blanket 8. Body Spray 9. Bread 10. Breakfast cereal 11. Butter 12. Camera 13. Car 14. Cheese spreads 15. Chocolate 16. Coffee 17. Cosmetology product 18. Crayons 19. Crockery 20. Cutlery 21. Cycle 22. DTH 23. Eraser 24. e-wash 25. Fairness cream 26. Fans 27. Fruit candy 28. Furniture 29. Hair Dye 30. Hair Oil 31. Infant dress 32. Inverter 	<ol style="list-style-type: none"> oven 40. Mixers 41. Mobile 42. Moisturizer 43. Music player 44. Nail polish 45. Newspaper 46. Noodles 47. Pen 48. Pen drive 49. Pencil 50. Pickles 51. Razor 52. Ready Soups 53. Refrigerator 54. RO system 55. Roasted snacks 56. Salt 57. Sarees 58. Sauces/ Ketchup 59. Shampoo 60. Shaving cream 61. Shoe polish 62. Shoes 63. Squashes 64. Suitcase/ airbag 65. Sunglasses 66. Tea 67. Tiffin Wallah 68. Toothpaste 69. Wallet 70. Washing detergent 	
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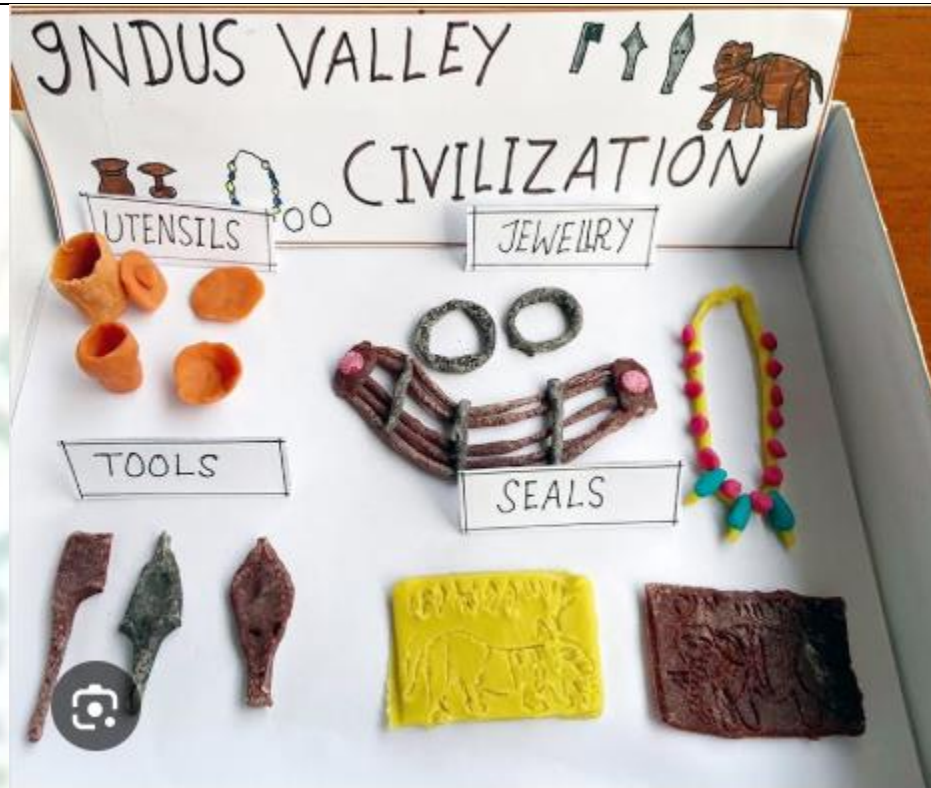
		<p>33. Jams</p> <p>34. Jeans</p> <p>35. Jewellery</p> <p>36. Kurti</p> <p>37. Ladies bag</p> <p>38. Ladies Footwear</p> <p>71. Washing machine</p> <p>72. Washing powder</p> <p>73. Water bottle</p> <p>74. Water storage tank</p> <p>75. Wipes</p> <p>76. Learning Toys</p> <p>77. Lipstick</p> <p>Students should not choose items whose consumption/use is discouraged by the society and government like alcohol products/pan masala and tobacco products, etc.</p> <p>Identify one product/service from the above on which you may like to manufacture/provide [pre-assumption].</p> <p>Now the students are required to make a project on the identified product/service keeping in mind the following:</p> <ol style="list-style-type: none"> 1. Why have they selected this product/service? 2. Find out '5' competitive brands that exist in the market. 3. What permission and licences would be required to make the product? 4. What are your competitors Unique Selling Proposition.[U.S.P.]? 5. Does your product have any range give details? 6. What is the name of your product? 7. Enlist its features. 8. Draw the 'Label' of your product. 9. Draw a logo for your product. 10. Draft a tag line. 11. What is the selling price of your competitor's product? <ol style="list-style-type: none"> (i) Selling price to consumer (ii) Selling price to retailer (iii) Selling price to wholesaler 		
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		<p>What is the profit margin in percentage to the <input type="checkbox"/> Manufacturer. <input type="checkbox"/> Wholesaler. <input type="checkbox"/> Retailer.</p> <p>12. How will your product be packaged?</p> <p>13. Which channel of distribution are you going to use? Give reasons for selection?</p> <p>14. Decisions related to warehousing, state reasons.</p> <p>15. What is going to be your selling price?</p> <ul style="list-style-type: none"> (i) To consumer (ii) To retailer (iii) To wholesaler <p>16. List 5 ways of promoting your product.</p> <p>17. Any schemes for</p> <ul style="list-style-type: none"> (i) The wholesaler (ii) The retailer (iii) The consumer <p>18. What is going to be your 'U.S.P'?</p> <p>19. What means of transport you will use and why?</p> <p>20. Draft a social message for your label.</p> <p>21. What cost effective techniques will you follow for your product.</p> <p>22. What cost effective techniques will you follow for your promotion plan.</p> <p>At this stage the students will realise the importance of the concept of marketing mix and the necessary decision regarding the four P's of marketing.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Product <input type="checkbox"/> Place <input type="checkbox"/> Price <input type="checkbox"/> Promotion <p>On the basis of the work done by the students the project report should include the following:</p> <ol style="list-style-type: none"> 1. Type of product /service identified and the (consumer/industries) process involve there in. 2. Brand name and the product. 3. Range of the product. 4. Identification mark or logo. 5. Tagline. 6. Labeling and packaging. 7. Price of the product and basis of price fixation. 		
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		<p>8. Selected channels of distribution and reasons thereof.</p> <p>9. Decisions related to transportation and warehousing. State reasons.</p> <p>10. Promotional techniques used and starting reasons for deciding the particular technique.</p> <p>11. Grading and standardization.</p> <p>Presentation and Submission of Project Report</p> <p>At the end of the stipulated term, each student will prepare and submit his/her project report.</p> <p>Following essentials are required to be fulfilled for its preparation and submission.</p> <ol style="list-style-type: none"> 1. The total length of the project will be of 30 to 35 pages. 2. The project should be handwritten. 3. The project should be presented in a neat folder. 4. The project report should be developed in the following sequence- <ul style="list-style-type: none"> ☐ Cover page should include the title of the Project (in 3D view), student information, school and year. ☐ List of contents. ☐ Acknowledgements and preface (acknowledging the institution, the places visited and the persons who have helped). ☐ Introduction. ☐ Topic with suitable heading. ☐ Planning and activities done during the project, if any. ☐ Observations and findings of the visit. ☐ Conclusions (summarized suggestions or findings, future scope of study). ☐ Photographs (if any). ☐ Appendix ☐ Teacher's observation. ☐ Signatures of the teachers. ☐ At the completion of the evaluation of the project, it should be punched in the centre so that the report may not be reused but is available for reference only. ☐ The project will be returned after evaluation. The school may keep the best projects. 	
11	History	<p>1. Prepare a Model according to CBSE guidelines.</p> <p>Some suggested topics are:</p>	

- Town planning and Artefacts of the Harappan civilization
- Roll No. 1 to 10





Sanchi Stupa
Roll No. 11 to 20





The Vijayanagar empire
Roll No. 21 to 29



Prepare a project according to CBSE guidelines.

Some suggested topics are:

- The tribal groups of India- The Paharias and the Santhals.
- Role of Mahatma Gandhi in the nationalist movement.
- The Constitution of India- Framing, implementation, importance.
- Revolt of 1857
- Jainism and Buddhism
- Rise of Magadha
- The mysteries behind the mound of dead – Mohenjo-Daro
- Buddha's Path to Enlightenment
- Bernier's notions of The Mughal Empire
- Rani Laxmi Bai : Woman who created history
- "Mahatma Gandhi" – A legendary soul
- To reconstruct the History of Vijaynagara
- A Hindu Mystic : Mira Bai
- Land Revenue Systems introduced by the Britishers in India
- Gupta Dynasty (Golden Era)
- Political and Economic History from Mauryan to Gupta period
- Puranic Hinduism (Vedic, Jainism, Vaishnavism, Shaivism)

FINAL PRESENTATION/LAYOUT OF THE PROJECT

- Section 1: History Project (Title of the Project)
Name: School: Year: Roll no.:
- Section 2: Certificate of authenticity (To be pasted)
Teacher's Signature
- Section 3: Index
- Section 4: Acknowledgement (Acknowledging the institution, the place visited and the person who has helped.)
- Section 5: Preface: Problem Statement/Objective of the project
- Section 6: Introduction: (Objective/learning outcomes of the project. Introduce the selected topic by giving some historical background)
- Section 7: Summary of the topic Activities done during the project

		<p>Section 8: Observations and Analysis</p> <p>Section 9: Conclusion Summarized suggestions of findings/Future scope of study</p> <p>Section 10: Appendix Person consulted, Bibliography, Books, Websites, Films/ Television referred.</p> <p>Section 11: Values and Life skills learned through the project</p> <p>Section 12: Draft Thank you.</p> <p>General Instructions:</p> <ul style="list-style-type: none"> • The project work to be done individually. • Each student should select one topic. • Each student to have a separate project file. • The project should be of minimum 40-50 pages each. • Use colourful sheets for the work; folder should be handmade and beautifully decorated. • The project should be totally research and survey based. • The project must be neat and well-presented and must be completely handwritten. • The topic must be first approved by the teacher. • The project should be done on inter leaf A-4 sized sheets. • Students must preserve the initial draft of the project as well as any research papers that they may have used. (To be attached at the end of the project) <p>2. Practice Maps of each lesson taught in the class and paste them.</p> <p>3. Go through the sources given in each chapter and make at least 4 questions with answers from each source</p>
12	Political Science	<p>Prepare a project according to CBSE guidelines.</p> <p>Some suggested topics are:</p> <ol style="list-style-type: none"> 1. Partition- Theory behind it and its legacy 2. Evolution of State boundaries after 1956 3. China or India – The next Super Power 4. India's relation with its Neighbours (specially focus on SAARC) 5. Emergency- Reasons and Consequences 6. NITI AYOJ v/s Planning Commission: Role in India's development

7. European Union and Brexit
8. UN and its agencies
9. North East: India's Untapped Frontier
10. One Party Dominance Then and Now
11. India's Foreign Policy
12. India's relation with its Neighbours
(specially focus on China and Pakistan)
13. India in 1975, chronological political events
14. Operation Blue Star
14. Globalisation and its impact
15. Jammu and Kashmir With or Without Article 370
16. Politics of Reservation in India
17. Security in the Contemporary World
(Specially focus on Terrorism and Migration)

FINAL PRESENTATION/LAYOUT OF THE PROJECT

- Section 1: Political Science Project (Title of the Project)
Name: School: Year: Roll no.:
- Section 2: Certificate of authenticity (To be pasted)
Teacher's Signature
- Section 3: Index
- Section 4: Acknowledgement (Acknowledging the institution, the place visited and the person who has helped.)
- Section 5: Preface: Problem Statement/Objective of the project
- Section 6: Introduction: (Objective/learning outcomes of the project. Introduce the selected topic by giving some historical background)
- Section 7: Summary of the topic Activities done during the project
- Section 8: Observations and Analysis
- Section 9: Conclusion Summarized suggestions of findings/Future scope of study

		<p>Section 10: Appendix Person consulted, Bibliography, Books, Websites, Films/ Television referred.</p> <p>Section 11: Values and Life skills learned through the project</p> <p>Section 12: Draft Thank you.</p> <p>General Instructions:</p> <ol style="list-style-type: none"> 1. Project should be individual only 2. It should be a handwritten project on a A4 size sheet. 3. Project should be summed up in 40 – 45 pages. 4. It should be well researched based on facts and figures and pictorial. 5. The project must have a Table of contents, Title/ Cover page, Acknowledgement, Bibliography, Analysis with headings and sub-headings. 6. It must include relevant news clippings, facts and figures, pictures. 7. You can plan a survey or an interview to supported your research. <p>2. Make a question bank which is based on chapters we have already completed in the class. 20 questions from each chapter. Questions will include 1, 2, 4 and 6 marker questions.</p> <p>3. Read the Newspaper daily and prepare a collage on the highlighted issues in Indian polity.</p> <p>3. Take Political maps and locate the following:</p> <p>a) Axis Powers and Allied Powers</p> <p>b) NATO countries</p> <p>c) Warsaw countries (Any Five)</p> <p>d) Countries which were affected after disintegration of USSR.</p> <p>e) State formation after independence along with the year</p>
13.	painting	<p>List of Practical works:</p> <p>1. Object Drawing :-</p>

	<p>For exam object drawing by placing the object in front of the student and to let them draw. For example:</p> <p>(i) A pot and glass to be arrange on the table. (ii) A book placed under the apple to be arrange on the table. (ii) Chair table and flower vase placed on the table etc.</p> <p>(Should be done with pencil or water colour)</p> <p>2. Painting and composition :-</p> <p>Free hand drawing directly from life of Human Figures, Building, Interior of a Room, Bus stop, Market, place, Vehicles, etc. paint on a given topic like e.g. Festival, Fair, Railway Station, Man reading a book or newspaper, playing with your pet, Eating out, Night scene, rainy day, wedding, Gram Panchayat, pollution, Library, Mother&Child etc. using imagination and everyday sketches. (Water colour or Acrylic colour or colour pencil would be used)</p> <p>3. Folk Art as Motif :-</p> <p>Use the motif of folk art of your locality or any well known India folk art. (Example-Madhubani, Worli, Kalamkari, Kalighat, Phar and Alpana/Rangoli etc) To re arrange a composition in your own style.</p> <p>(Any colour or black and white are allowed only for folk painting).</p> <p>NOTE:- USE ONLY A3 SIZE SHEETS.</p>
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