

BLOOM PUBLIC SCHOOL

Vasant Kunj, New Delhi

Holiday Homework

Class: XII

Subject	Homework
English	<p>Source-https://ncert.nic.in/pdf/AAC_HigherSecondary_eng.pdf <i>Read the following chapters in the Flamingo textbook.</i></p> <ol style="list-style-type: none"> 1. Lost Spring 2. An Elementary School Classroom in a Slum 3. Watch the movie- PaperBoy <p>https://www.facebook.com/MegaShortFilms/videos/293336278013409/</p> <p><i>Create a book using GOOGLE SLIDES/ SCRAPBOOK)</i></p> <p><i>a. What was your experience of watching the film given ? Has the boy in the film Paperboy been able to convey his feelings? Mention a few instances in support of your answer.</i></p> <p><i>b. What is your opinion about the ambience and the details which have been focused upon in the film? Do these contribute to your experience, understanding of the film and of the chapters mentioned?</i></p> <p><i>c. Create a comic strip on any of the above mentioned story/poem Complete your book with a message. The message can be made in the form of a poster.(GOOGLE SLIDES)/ SCRAPBOOK</i> https://www.youtube.com/watch?v=dcTbckKjvpM- Link to learn how to make cartoon strips on google slides.</p>
Business Studies	<p>AAC Activity - Identify one success story, either from the organised or unorganised sector [Local, Country wide or Global]. • Success stories can be taken from net or Cases given in boxes throughout the chapter in the textbook can be used. • Develop a write up of 2 pages on its management strategies.</p> <p>Attempt all short and long answer questions given at the end of the chapter 1.(Submit in pdf form in Google classroom)</p>

	<p>Make a concept map or Mind map of Chapter 1(Using any software or on A4 size sheet)</p>
Accountancy	<p>1. Prepare a crossword puzzle/ word search (with answer key) based on terminology used in context of Not for Profit organisation(NPO) .Minimum 15 hints must be provided. The same can be done either using any computer software or on an A4 sheet. The document must share your name,class section and topic.</p> <p>The submission is to be done on Google classroom under “Accountancy- Holiday Homework” in PDF format only.</p> <p>2. AAC activity- Practice solved illustrations given on pages 11 to 45 of the textbook (NCERT)</p>
Mathematics	<p>Task 1: Do the following questions in class register from Maths Exemplar Chapter 2: Inverse Trigonometric functions QNo 1 to10 , page no 36 Click the picture of the written work convert to pdf and upload on Google classroom under HHW assignment. Link to download Maths Exemplar: https://ncert.nic.in/pdf/publication/exemplarproblem/classXII/mathematics/leep202.pdf</p> <p>Task 2. Make a Comic book on Activity 5 using Book Creator or A4 sheet If you are making a Comic book on Book Creator, it is a group activity. 2-3 students will make a comic book. For Group see Google Classroom. CODE TO JOIN LIBRARY: MSR8J89 Link to download Maths Lab manual: https://ncert.nic.in/pdf/publication/sciencelaboratorymanuals/classXII/mathematics/lelm501.pdf Link for login to book creator : https://bookcreator.com/ Link for Book Creator tutorial: https://www.youtube.com/watch?v=HJvkeh7DK6c&t=23s</p> <p>Task 3: Attempt Kahoot Quiz on Inverse Trigonometric Function:</p>

	<p>Link for quiz: https://kahoot.it/challenge/01572852?challenge-id=c1e9c3d2-d85d-4845-a03f-358436369c39_1620235692396</p>
Economics	<p>CBSE Board Practical File - Students will research their Board topics and prepare the theory portion. Details will be given on Economics Google classroom.</p> <p>Mode of submission - Students must submit their mind map for the project and the theory portion. Mindmap can be submitted in Padlet or handwritten. Theory - Handwritten</p> <p>Link to the curriculum link - http://cbseacademic.nic.in/web_material/CurriculumMain22/SrSec/Economics_SrSec_2021-22.pdf</p> <p style="text-align: center;">OR</p> <p>Attempt the assignment based on Basic concepts in National Income (to be uploaded on Google Classroom). Mode of submission - Word Document/ Padlet OR Handwritten</p> <p>Google form quiz based on the 3 chapters. Submission - Online</p>

Physics

Chapter – 1 ELECTRIC CHARGES AND ELECTRIC FIELDS

1. Several electric field line patterns are shown in the diagrams below. Which of these patterns are incorrect? Explain what is wrong with all incorrect diagrams.

Diagram A

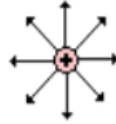


Diagram B



Diagram C



Diagram D

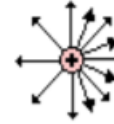
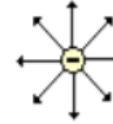
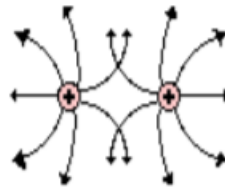


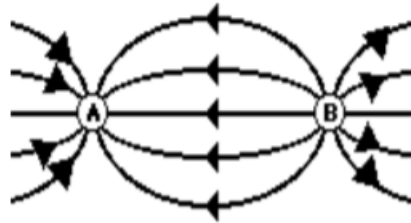
Diagram E



2. Ravi drew the following electric field lines for a configuration of two charges. What did Ravi do wrong? Explain.



3. Consider the electric field lines shown in the diagram below. From the diagram, it is apparent that object A is ____ and object B is ____.



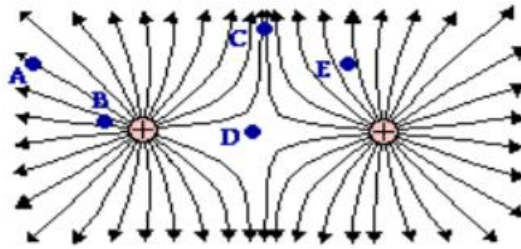
a.) +, +

b.) -, -

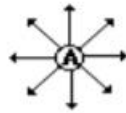
c.) +, -

d.) -, +

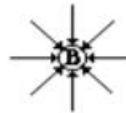
4. Consider the electric field lines drawn for a configuration of two charges. Several locations are labeled on the diagram. Rank these locations in order of the electric field strength - from smallest to largest.



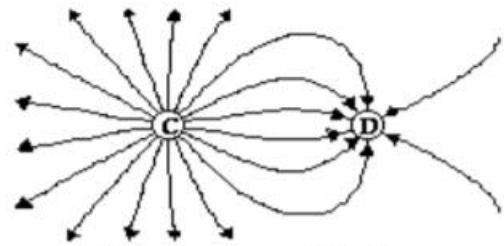
5. Use your understanding of electric field lines to identify the charges on the objects in the following configurations.



A: + or -

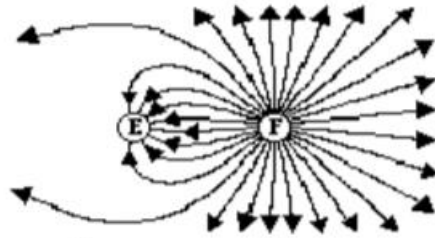


B: + or -



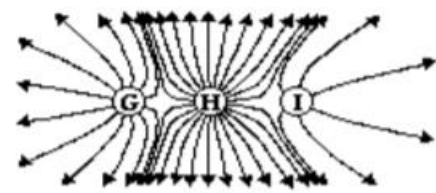
C: + or -

D: + or -



E: + or -

F: + or -

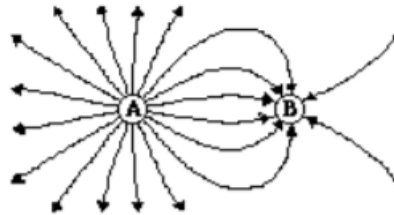


G: + or -

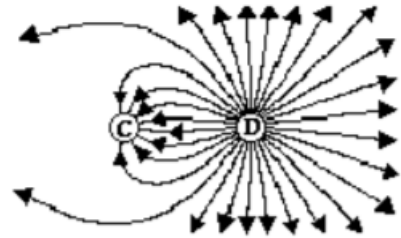
H: + or -

I: + or -

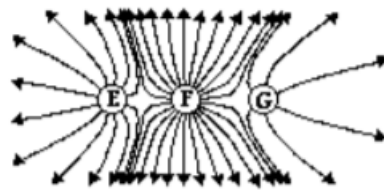
6. Observe the electric field lines below for various configurations. Rank the objects according to which has the greatest magnitude of electric charge, beginning with the smallest charge.



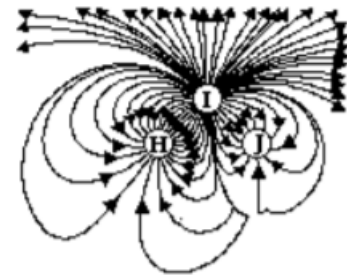
Ranking: _____ < _____



Ranking: _____ < _____



Ranking: _____ < _____ < _____



Ranking: _____ < _____ < _____

7. Two insulated charged copper spheres A and B of identical size have charges q_A and q_B respectively. A third sphere C of the same size but uncharged is brought in contact with the first and then in contact with the second and finally removed from both. What are the new charges on A and B?

8. Define 1 coulomb (1 C) of electric charge.

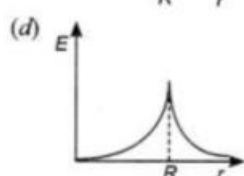
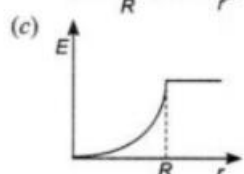
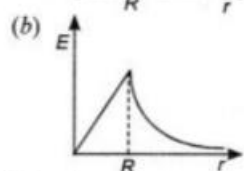
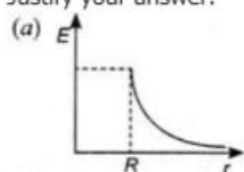
9. If F is the magnitude of force experienced by a unit charge placed at a distance of 1 cm from an infinitely large charged sheet, then what will be the force experienced by the same charge placed at a distance of 2 cm from the same sheet?

10. An electric dipole is held in a uniform electric field. Using a suitable diagram show that it does not undergo any translatory motion. Also derive an expression for the torque acting on it and specify its direction. When is this torque maximum?

11. Define the term electric flux. Write its SI unit. Two charges of magnitudes $-2Q$ and $+Q$ are located at points $(a, 0)$ and $(4a, 0)$ respectively. What is the electric flux due to these charges through a sphere of radius $3a$ with its center at the origin?

12. What is the field inside a uniformly charged spherical shell and why?

13. Which of the following graphs shows the variation of electric field E due to a hollow spherical conductor of radius R as a function of distance from the center of the sphere? Justify your answer.



14. State and Prove Gauss's law in electrostatics. Using it, derive an expression for the electric field at a point near a uniformly charged thin infinite plane sheet.

15. Draw the electric field lines if (i) a point charge $+q$ is placed at the center of a spherical shell of radius R (ii) a point charge $+q$ is placed at a distance $R/2$ from the center of the spherical shell of radius R .

Chemistry

Select a topic for your investigatory projects of chemistry and get it approved by teacher. Research about it and complete the written part of the investigatory project on a4 sized ruled sheets for board evaluation

	<p>Create a book//ppt on covid 19 -cause, effects, types of drugs used as antimicrobials and methods of prevention. You can also add self created poem or riddles on the given topic.</p> <p>Book creator link https://youtu.be/HJvkeh7DK6</p> <p>The code to join Chemistry library is MHLDZJW</p>
Biology	<p>Select a topic for your investigatory projects biology, research about it and complete the written part of the investigatory project on a4 sized ruled sheets for board evaluation. (4 hours)</p> <p>The code to join Biology library is MSR7RWJ</p>
Computer Science	<p>Jatinder uses Internet banking. This pseudocode checks her PIN.</p> <pre> c ← 0 INPUT PIN x ← PIN REPEAT x ← x/10 c ← c + 1 UNTIL x < 1 IF c <> 5 THEN PRINT "error in PIN entered" ELSE PRINT "PIN OK" ENDIF </pre> <p>(a) What value of c and what message would be output if the following PINs were entered?</p> <p>5 1 0 2 0 Value of c:</p> <p>Message:</p> <p>5 1 2 0 Value of c:</p> <p>Message: [2]</p> <p>(b) What type of validation check is being carried out here?</p> <p>..... [1]</p> <p>Read this section of program code that inputs twenty (20) numbers and then outputs the largest number input.</p> <pre> 1 h = 0 2 c = 0 3 REPEAT 4 READ x 5 IF x > h THEN x = h 6 c = c + 1 7 PRINT h 8 UNTIL c < 20 </pre> <p>There are three errors in this code.</p> <p>Locate these errors and suggest a corrected piece of code.</p>

	<p>Write an algorithm, using pseudocode or flowchart only, which:</p> <ul style="list-style-type: none"> • inputs three numbers • outputs the largest of the three numbers <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p>Pre-release material</p> <p>Write and test a program to complete the three tasks.</p> <p>TASK 1</p> <p>Input and store the names and marks for 30 students who have sat three computer science tests. Test 1 is out of 20 marks, Test 2 is out of 25 marks, Test 3 is out of 35 marks. You must store the names in a one-dimensional array and the marks and total score for each student in one-dimensional arrays. All the marks must be validated on entry and any invalid marks rejected. You may assume that the students' names are unique.</p> <p>TASK 2</p> <p>Calculate and store the total score for each student and calculate the average score for the whole class. Output each student's name followed by their total score, then output the average score for the class.</p> <p>TASK 3</p> <p>Select the student with the highest score and output their name and score.</p> <p>Your program must include appropriate prompts for the entry of data. Error messages and other output need to be set out clearly and understandably. All variables, constants and other identifiers must have meaningful names. Each task must be fully tested.</p> </div> <p>(a) All variables, constants and other identifiers should have meaningful names.</p> <p>(i) Declare the array to store the students' names.</p> <p>..... [1]</p> <p>(ii) Declare the arrays to store each student's marks and total score.</p> <p>..... [2]</p> <p>(b) (i) Show the design of your algorithm to complete Task 1 and Task 2 using pseudocode, programming statements or a flowchart. Do not include any of the validation checks in your algorithm.</p> <p>Complete the work and compile it in a book, using Book Creator. The books should be created in the library with code MYQTFV5</p>
<p>History</p>	<p>Students will be working on the CBSE project. Details will be posted in Google Classroom Project report should be hand written only.</p> <p>Project Work Collect data on the following topics</p> <p>1. The mysteries behind the mound of dead – Mohenjo-Daro</p>

	<ol style="list-style-type: none"> 2. An In-depth study to understand Spiritual Archaeology in the Sub-Continent 3. Buddha's Path to Enlightenment 4. An exploratory study to know the women who created history 5. "Mahatma Gandhi" – A legendary soul 6. Vision of unity behind the first war of Independence 7. Help, Humanity and Sacrifices during Partition 8. Town planning and artifacts of the Harappan civilization 9. Mahabharata through a Readers eye 10. Through the Travellers eyes 11. Understanding the Bhakti-Sufi movement in India 12. Architecture: a) Vijaynagar Kingdom b) Colonial Cities: Calcutta, Bombay and Delhi <p>Guidelines: - Students can use primary sources available in city archives, newspaper cuttings, photographs, film footage and recorded written speeches. Secondary sources can also be used after proper authentication.</p>
<p>Political Science</p>	<p>Political Science Project- Prepare a project according to CBSE guidelines. Some suggested topics are:</p> <ol style="list-style-type: none"> 1. The recent Lok Sabha Elections 2019 were hotly contested. Many parties were in the fray and the results have been declared. Analyse this election and submit a project report by answering the following: <ol style="list-style-type: none"> a) Analyse the importance of elections in a democratic country. b) Name of the parties contesting and their alliances along with their symbols. c) Slogans used and highlights of their campaigns d) The controversial and contentious issues that have been a part of the elections. e) Analysis of result with help of pie chart. Any of these points (a-e) can be used as a separate project while analysing all Lok Sabha elections of the country so far. 2. Partition- Theory behind it and its legacy 3. State Reorganisation– Do we still require it? 4. Election Commission- its changing role and importance 5. One Party Dominance-Congress to BJP post 2014 (depending upon the election results) 6. Change in India's Foreign Policy

7. India's relation with its neighbours- any one country can be studied
 8. Emergency- Reasons and Consequences- a role play or skit with a group of 5 students
 9. Popular movements- Any one movement can be used from chapter 6 and a relation drawn with any current protest on that issue
 10. Regional Aspiration – Separatist Movement- Kashmir
 11. Role of Regional Parties- A detailed study of any one
 12. Naxalite Movement- How can government address the problem
 13. Politics of Reservation in India- Constitution- SC and ST, Mandal- OBC, NDA- EWS
 14. Coalition Politics- Study of UPA and NDA
 15. Cold war- Is the world heading to Cold war 2- USA and China
 16. China – The next Super Power
 17. Post Soviet Republics- Life after Disintegration
 18. EU- Brexit
 19. UN and its agencies – a Mock Event can be presented by the group
 20. Environment- Sustainable development- Need of the hour
 21. Globalisation – Eco., Pol., and Cultural Impact on Third World
- Any other topic based on the syllabus.

General Instructions:

1. Project can be individual/ pair/ group of 4-5 each.
 2. It should be a handwritten project on an A4 size sheet.
 3. Project should be summed up in 10-15 pages. (in case of pair and group the no. of pages can exceed to 20-25)
 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 subheadings.
 6. It must include relevant news clippings, facts and figures, pictures.
 7. You can plan a survey or an interview to support your research.
 8. As per CBSE suggestive list of activities are Role Play, Presentation, Model, Field Survey, Mock Event etc.
- B. Read and revise the chapters taught in the class.
C. Read the newspaper daily, especially the editorial.

Psychology

Watch the following videos:

	<p>1. Different Assessment methods http://econtent.ncert.org.in/wp-admin/admin-ajax.php?action=h5p_embed&id=460</p> <p>2. Theories and Measurement of Intelligence https://nroer.gov.in/55ab34ff81fccb4f1d806025/page/582add6516b5160b081e2</p> <p>Please use a book Creator app to present any 3 of the following. Link: https://app.bookcreator.com/library/-MZVqX-EvKZ4dY0FUpNS CODE: MYSX622</p> <p><u>The work can also be done on A4 size sheets if you have limited access to technology.</u></p> <p>Link to login to book creator : https://bookcreator.com/ Link for Book Creator tutorial: https://www.youtube.com/watch?v=HJvkeh7DK6c&t=23s</p> <ul style="list-style-type: none"> • Make a list of all the attributes (quality, characteristics, traits, features) you consider as sign of intelligent behaviours. Keep these attributes in view try to formulate a description/explanation of intelligence. • Think of any three people who you think are intelligent. Try to visualise their thoughts, behaviours and actions. Classify them and prepare a list. • Compare your understanding of intelligence as formulated in previous activity with the explanation given in the Psychology Textbook. • Which theory of intelligence do you find most interesting? Write points which interest you. • Write the careers that interest you. Reflect on which multiple intelligences are important for these careers. • Search information related to skills and abilities required for different careers on the Internet.
Legal studies	The Students are required to begin their Project Work as mandated by CBSE. The Guidelines for the Project Work are provided in the

Legal Studies Curriculum on the CBSE Website. The link for the same is provided below

http://www.cbseacademic.nic.in/web_material/CurriculumMain22/SrSec/LegalStudies_SrSec_2021-22.pdf

Details of Project Work are given on Page No. 6 & 7 of the document (link above).

Additional information that I will put up on Google Classroom is -

Guidelines for Project Work:

1. The Project Work must be done on a Word Document. Format for the same is attached.
2. Text/ font details - Black, Times New Roman, Size 12, Paragraph spacing of 1.5.
3. Plagiarism - Any amount of plagiarism will carry negative marking.

Methodology

1. The Title of the Project Work is - “Understanding the parts of a judicial decision”.
2. The student is required to select ANY 3 decided cases related to the curriculum.
3. How to select the cases -
 - a. Please open the textbook and go through the various cases mentioned in the textbook. (link for textbook given - http://www.cbseacademic.nic.in/web_material/doc/Legal_Studies/Legal%20Studies%20Text%20Book%20Class%20XII.pdf)
 - b. Pick any 3 cases from any Unit.
 - c. THE CASES SELECTED SHALL NOT BE THE SAME AS THE ONES CHOSEN FOR THE PROJECT WORK DONE LAST YEAR (IN 11TH CLASS). For example, if you selected Maneka Gandhi as a case for your project work last year (in 11th class), you shall NOT select Maneka Gandhi again.
 - d. You are required to search for the Judgement of the cases selected on Google. Preferably use judgments given on Indian Kanoon. (link attached - <https://indiankanoon.org/>).

	<p>e. If you have any difficulty in finding a judgment, please contact me and I will share it with you.</p> <p>4. The research on the cases must include the following points:</p> <ol style="list-style-type: none"> a. Name of the case b. Parties to the case c. Nature of the case (Civil, criminal or Constitutional) d. Facts of the case e. issues involved f. Decision of the case <p>5. The focus should be on the decision of the case wherein the ratio decidendi and obiter dicta can be clearly identified and marked. The difference between the two parts must also be highlighted.</p> <p>RUBRICS FOR ASSESSMENT</p> <ol style="list-style-type: none"> 1. Preparation and presentation of file - 5 marks 2. Research work - 5 marks 3. Application and understanding of legal concept - 5 marks 4. Viva - 5 marks
<p>Applied Mathematics</p>	<p>Choose any one project out of the listed projects as given in the CBSE curriculum.</p> <p>Link: http://cbseacademic.nic.in/web_material/CurriculumMain22/SrSec/Applied_Mathematics_SrSec_2021-22.pdf</p> <p>List of Suggested projects</p> <ol style="list-style-type: none"> i) Use of prime numbers in coding and decoding of messages ii) Prime numbers and divisibility rules iii) Logarithms for financial calculations such as interest, present value, future value, profit/loss etc. with large values) iv) The cardinality of a set and orders of infinity v) Comparing sets of Natural numbers, rational numbers, real numbers and others vi) Use of Venn diagram in solving practical problems vii) Fibonacci sequence: Its' history and presence in nature viii) <p>Testing the validity of mathematical statements and framing truth tables</p> <p>ix) Investigating Graphs of functions for their properties</p>

- x) Visit the census site of India
[http://www.censusindia.gov.in/Census_Data_2001/Census_Data_Online/Language/State ment3.htm](http://www.censusindia.gov.in/Census_Data_2001/Census_Data_Online/Language/State%20ment3.htm) Depict the information given there in a pictorial form
- xi) Prepare a questionnaire to collect information about money spent by your friends in a month on activities like travelling, movies, recharging of the mobiles, etc. and draw interesting conclusions
- xii) Check out the local newspaper and cut out examples of information depicted by graphs. Draw your own conclusions from the graph and compare it with the analysis given in the report
- xiii) Analysis of population migration data – positive and negative influence on urbanization
- xiv) Each day newspaper tells us about the maximum temperature, minimum temperature, and humidity. Collect the data for a period of 30 days and represent it graphically. Compare it with the data available for the same time period for the previous year
- xv) Analysis of career graph of a cricketer (batting average for a batsman and bowling average for a bowler). Conclude the best year of his career. It may be extended for other players also – tennis, badminton, athlete
- xvi) Vehicle registration data – correlating with pollution and the number of accidents
- xvii) Visit a village near Delhi and collect data of various crops over the past few years from the farmers. Also, collect data about temperature variation and rain over the period for a particular crop. Try to find the effect of temperature and rain variations on various crops
- xviii) Choose any week of your ongoing semester. Collect data for the past 10 – 15 years for the amount of rainfall received in Delhi during that week. Predict the amount of rainfall for the current year
- xix) Weather prediction (prediction of monsoon from past data)
- xx) Visit Kirana shops near your home and collect the data regarding the sales of certain commodities over a month. Try to figure out the stock of a particular commodity which should be in the store in order to maximize the profit
- xxi) Stock price movement
- xxii) Risk assessments by insurance firms from data
- xxiii) Predicting stock market crash
- xxiv) Predicting the outcome of an election – exit polls
- xxv) Predicting mortality of infants

	<p>Guidelines for Project Work: The Project Work can be hand written on A4 sheets or can be done on a Word Document printout on A4 sheet.</p> <p>RUBRICS FOR ASSESSMENT OF PROJECT</p> <p>Preparation, Research and presentation of file - 5 marks Year end presentation and Viva- 5 marks</p>
<p>Marketing</p>	<p>1.Study the following link and develop a marketing plan for your product. (Part fulfillment of CBSE practical component)</p> <p>https://www.techwyse.com/blog/online-innovation/emerging-digital-marketing-trends/</p> <ul style="list-style-type: none"> • Your product should fulfill any 1 need of Today’s world. • Your product should have a BRAND NAME, PACKAGING AND LABEL. • Design an advertisement (any form can be chosen poster/ video/ animation etc.) for any 1 social media platform. • Plan and depict the details in the form of a Presentation. (Try using a different software such as Prezi, Canva, etc for presentation) <p>Link to log in to Prezi : www.prezi.com Link for tutorial : https://www.youtube.com/watch?v=fubGt7wAiBU</p> <p>Link to log into Canva : www.canva.com Link for tutorial :https://www.youtube.com/watch?v=zJSgUx5K6V0 <u>The project can also be undertaken on A4 size sheets if you have limited access to technology.</u></p>