

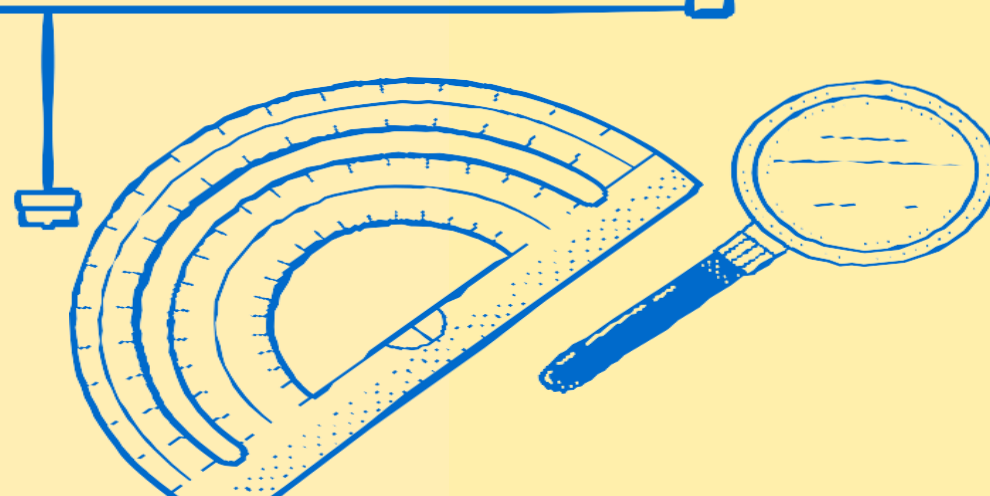
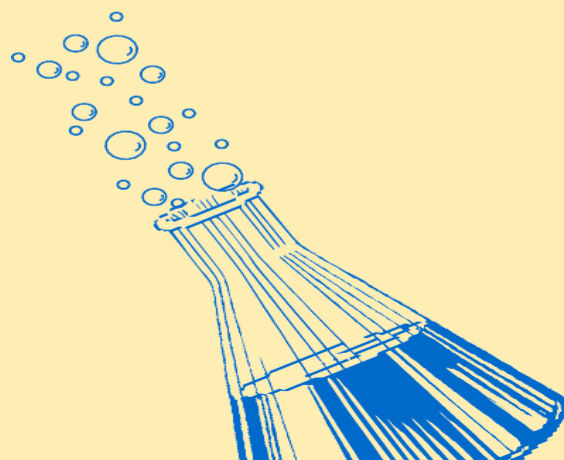


BGS International Public School Sector 5, Dwarka, New Delhi

Class XII

2025-26

Summer Assignment



BGS INTERNATIONAL PUBLIC SCHOOL
SEC-5, DWARKA, NEW DELHI - 110075
HOLIDAY HOMEWORK CLASS XII (2025-26)

S.No.	Name	Topics
1	English	A project file is to be prepared, based on any literature chapter covered so far.
2	Physics	Learn Ch-1 , Ch-2, Ch-3 for PT 1, Prepare Activity File Prepare Project file
3	Chemistry	1. Prepare an Investigatory project on approved topic in form of a power point presentation using photoshop and involve colourful pictures. Headings must be same as in the document shared earlier. 2. Write all practicals in Chemistry Practical file. 3. Prepare flowcharts for chemical reactions of organic chemistry and learn the chemical equations. 4. Practice reaction mechanisms of organic chemistry reactions in writing. 5. Prepare Mind maps for remembering organic reactions NOTE: All information related to written work in practical file will be given in class.

4	Mathematics	<p>Holiday Homework Mathematics</p> <p>1) Activity File: (Individual Activity) Students will write 10 activities on project file as a part of internal assessment.</p> <p>2) Assignments and Previous year questions to be completed for the completed chapters in Assignment Registers.</p> <p>Questions will be shared in subject group.</p> <p>3)Art Integration in Mathematics:</p> <p>Mathematics and it's essential role on AI(Group Activity)</p> <p>Students will be divided into groups (5 to 6 students in each group), they eill prepare Animated videos/ PPT/ Models based on any one of AI tools.</p> <p>#Class point - Quiz Maker</p> <p>#Symbolab</p> <p>#Geogebra</p> <p>#Wolfram Alpha</p> <p># Maplesoft</p> <p># Microsoft Math Solver.</p> <p># Gamify Math- puzzles/ board games.</p>
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5	Biology	<p>1. PRACTICAL WORK List of Experiments to be written in Practical File 1. Common disease causing organisms like Ascaris, Entamoeba, Plasmodium, any fungus causing ringworm through permanent slides, models or virtual images . Comment on symptoms of diseases that they cause. 2.Mendelian inheritance using seeds of different colour/sizes of any plant. 3. Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness. 4. Isolate DNA from available plant material such as spinach, green pea seeds, papaya etc Flash card models showing examples of homologous and analogous organs. 5. Study the plant population density by Quadrat method. 6. Study the plant population frequency by quadrat method 7. Models specimen showing symbiotic association in root modules of leguminous plants,Cuscuta on host, lichens.</p> <p>2. ART INTEGRATED PROJECT Video/ Film making, Art Exhibition, Photography, PPT/Slide show, Sculpture, Clay modelling, Dance Performance, Paper Mache</p>
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6	Computer Science	<p>Students to visit local businesses and ask them about the problems that they are facing. For example, if a business is finding it hard to create invoices for filing GST claims, then students can do a project that takes the raw data (list of transactions), groups the transactions by category, accounts for the GST tax rates, and creates invoices in the appropriate format. Students can be extremely creative here. They can use a wide variety of Python libraries to create user friendly applications such as games, software for their school, software for their disabled fellow students, and mobile applications, of course to do some of these projects, some additional learning is required here that will be encouraged.</p> <p>Few suggested topics :</p> <ul style="list-style-type: none"> • Smart Library System • Student Record Management System • Daily Expense Tracker • Movie Booking System (Console Based) • Online Food Ordering System • Hospital Appointment Management • Quiz Game with Scoreboard • Inventory Management for Stationery Shop • E-Waste Collection Tracker • College Event Registration System
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7	Physical Education	Practical file work - main game ,600 M Run walk ,50 m – ,sit up push up ,two sitting and two standing yoga Aasana.
8	Psychology	Case Study to be completed. Revision of Syllabus for PT1.
9	Accountancy	Investigatory Project on the assigned topics
10	Business Studies	(1) Project Work: Any one from the following: (i) Elements of Business Environment (ii) Principles of Management (iii) Stock Exchange (iv) Marketing (2) Complete all assignments and N.C.E.R.T. questions of chapter covered till summer vacations. (3) Revise chapter: 1 ,2, 3 & 11
11	Economics	Project Work, revision for PT-1, Worksheet of Macro Economics (National Income and Money and Banking) worksheet of Indian Economy Ch-1 and Ch-2

12	Informatics Practices	<p>The learner can take data stored in csv or database file and analyze using Python libraries and generate appropriate charts to visualize.</p> <p>Learners can use Python libraries of their choice to develop software for their school or any other social good.</p> <ul style="list-style-type: none"> • Student Health & Fitness Tracker • Personal Finance Manager • School Attendance Manager • Smart Contact Tracing System • Movie Review Analyzer • Online Course Tracker • Air Quality Analyzer
13	Political Science	<ol style="list-style-type: none"> 1. Revise the following Chapters- Ch1 (End of Bipolarity), Ch2 (Contemporary Centers of Power) and Ch4 (International Organizations) 2. Do the competency based questions in your Political Science Assignment Register. 3. Complete your project files as per CBSE guidelines
14	Sociology	<p>Complete the research project file as per CBSE norms.</p> <ol style="list-style-type: none"> 2. Revise book 1 ch 1-4 thoroughly. 3. Complete the sample question papers for book 1 for all 4 chapters from Abhishek study material provided to students in a separate notebook for submission.
15	Entrepreneurship	<p>ENTREPRENEURSHIP SUMMER ASSIGNMENT</p> <p>PROJECT WORK:</p> <ul style="list-style-type: none"> * Market survey (any product of their choice) * Business plan (any product of their choice)

16	Applied Mathematics	<p>Holiday Homework Applied Mathematics</p> <p>1) project file;(Individual project)Students will have to make a project on either one of the following topics project file as a part of internal assessment.</p> <p>(i) 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.</p> <p>(ii) 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.</p> <p>(iii) 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 .</p> <p>2) Do practice worksheets for completed chapters in Assignment Registers. Questions will be shared in subject group.</p> <p>3)Art Integration in Applied Mathematics (Group Activity): Real life Application of Applied Mathematics and it's essential role on (Use of Spread Sheets) (for example - Stock Market data sheet on Excel, Collect data from newspapers on traffic, sports activities and market trends and use Excel to study future trends).</p> <p>Students will be divided into groups (2 to 3 students in each group), they will prepare</p> <p># Animated videos/ PPT/ Models #Microsoft Spread Sheets (Excel) # Geogebra # Microsoft Math solver</p>
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Note : As per CBSE, Internships are mandatory for students from class 9 to 12.

Students are required to do internship as much as possible.

Internships will enhance their resume for further studies in foreign and some Indian universities where these are mandator