



St. Mary's Convent Inter College

32, Thornhill Road, Prayagraj, UP - 211002

Class – 11

Summer Holiday Assignments 2026-27

Subject	Holiday Homework
English	English Language – Practice the following – 1. Proposal Writing. 2. Report Writing. 3. Transformation of Sentences. English Literature 1. Write the critical analysis of the short story – A Living God 2. Prepare Macbeth Act 1 Scenes 1 and 2. 3. Prepare the poem – Abhisara.
Hindi	1-निबंध -विज्ञान वरदान या अभिशाप 2-साखी -प्रश्नोत्तर 3-Prepare the chapter-पुत्र प्रेम, साखी for unit test
Mathematics	List of suggested assignments for Project Work: 1. Explore different methods to prove the result “If a set has ‘n’ number of elements, then the total number of subsets is 2^n ” 2. Verify that for two sets A and B, $n(A \times B) = pq$, where $n(A) = p$ and $n(B) = q$, the total number of relations from A to B is $2^{(pq)}$. 3. Using Venn diagram, verify the distributive law for three given non-empty sets A, B and C. 4. Identify distinction between a relation and a function with suitable examples and illustrate graphically. 5. Establish the relationship between the measure of an angle in degrees and in radians with suitable examples by drawing a rough sketch. 6. Illustrate with the help of a model, the values of sine and cosine functions for different angles which are multiples of $\pi/2$ and π . 7. Draw the graphs of $\sin x$, $\sin 2x$, $2 \sin x$, and $\sin x/2$ on the same graph using same coordinate axes and interpret the same. 8. Draw the graph of $\cos x$, $\cos 2x$, $2 \cos x$, and $\cos x/2$ on the same graph using same coordinate axes and interpret the same.



Phone No.: 0532-2407617



Mobile No.: 9451881245



www.smcejallahabad.org



St. Mary's Convent Inter College

32, Thornhill Road, Prayagraj, UP - 211002

9. Using argand plane, interpret geometrically, the meaning of $i = \sqrt{-1}$ and its integral powers.
10. Draw the graph of quadratic function $f(x) = ax^2 + bx + c$. From the graph find maximum/minimum value of the function. Also determine the sign of the expression.
11. Construct a Pascal's triangle to write a binomial expansion for a given positive integral exponent.
12. Obtain a formula for the sum of the squares/sum of cubes of 'n' natural numbers.
13. Obtain the equation of the straight line in the normal form, for α (the angle between the perpendicular to the line from the origin and the x-axis) for each of the following, on the same graph:
 - (i) $\alpha < 90^\circ$
 - (ii) $90^\circ < \alpha < 180^\circ$
 - (iii) $180^\circ < \alpha < 270^\circ$
 - (iv) $270^\circ < \alpha < 360^\circ$
14. Identify the variability of two sets of statistical data using the concept of coefficient of variation.
15. Construct the tree structure of the outcomes of a random experiment, when elementary events are not equally likely. Also construct a sample space by taking a suitable example.
16. Let S and S1 be two (non-concentric) circles with centres A, B and radii r_1 , r_2 and d be the distance between their centres. Relation between r_1 , r_2 and d with respect to relative position of two circles.
17. Construct different types of conics by PowerPoint Presentation, or by making a model, using the concept of double cone and a plane.
18. Use focal property of ellipse to construct ellipse.
19. Use focal property of hyperbola to construct hyperbola.
20. Write geometrical significance of X coordinate, Y coordinate, and Z coordinate in space. Using the above, find the distance of the point in space from x-axis/y-axis/z-axis. Explain the above using a three-dimensional model/ power point presentation.



Phone No.: 0532-2407617



Mobile No.: 9451881245



www.smcejallahabad.org



St. Mary's Convent Inter College

32, Thornhill Road, Prayagraj, UP - 211002

	<p>Choose any two topics from the list given above and prepare a well-structured project file on each. Your project should include a clear introduction, relevant content, and a proper conclusion, presented neatly and creatively.</p>
Physics	<p>Solve the following problems in your notebook:</p> <ol style="list-style-type: none">1. A body is moving along a straight highway with speed of 126 km/hr is brought to rest within a distance of 200 m. What is the retardation of the car (assumed uniform) and how long does it take for the car to stop?2. A player throws a ball upwards with an initial speed of 29.4 m/s<ol style="list-style-type: none">i) What is the direction of acceleration during the upward motion of the ball?ii) What are the velocity and acceleration of the ball at the highest point of its motion?iii) To what height does the ball rise and after how long does the ball return to the player's hand?3. A ball is thrown up with a velocity of 78.4 m/s. Find how high it will rise and how much time it will take to return to its point of projection?4. Ball A is thrown upwards with a speed of 35 m/s from ground, while at the same time another ball B is dropped from a height of 100 m with a speed of 10 m/s along the same straight line. Find the height from ground, where two balls meet. Take $g = 10\text{m/s}^2$.5. An athlete runs a distance of 1500 m in the following manner (i) starting from rest, he accelerates uniformly at 2m/s^2 till he covers a distance of 900 m (ii) He, then run the remaining distance of 600 m at the uniform speed developed. Calculate the time taken by the athlete to cover the two parts of the distance covered. Also, find the time when he is at the centre of the track.6. Find the dimensions of a, b and a/b in equation $w = \left(\frac{a - x^2}{bt}\right)$, where W is work, x is distance and t is time.7. Find the value of 60 W on a system having 100 g, 20 cm and 1 min as fundamental unit.8. The time rate of change of position of an object in any direction is called, speed of the object. If an object covers equal distances in equal intervals of time, then its speed is called uniform speed and if it covers unequal distances in equal interval of time, then its speed is non-uniform speed or variable speed. The ratio of total distance travelled by the object to the total time is called average speed. The speed may be positive or zero but never be negative. The speed-time graph



Phone No.: 0532-2407617



Mobile No.: 9451881245

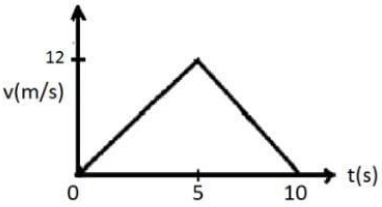


www.smcejallahabad.org



St. Mary's Convent Inter College

32, Thornhill Road, Prayagraj, UP - 211002

	<p>of a particle moving along a fixed direction is shown in figure below.</p>  <p>i) Calculate the total distance travelled by the particle between 0 to 10 seconds. ii) Calculate the average speed between the time interval 0 to 10 seconds. iii) What are times at which speed was minimum? iv) What is nature of motion? v) Under what condition speed can be called as velocity?</p> <p>9. The v-t graphs of two objects makes angles of 30° and 60° with the time axis. Find the ratio of their acceleration</p> <p>10. A hundred metre sprinter increases her speed from rest uniformly at the rate of 1 m/s^2 upto three quarters of the total run and covers the last quarter with uniform speed. How much time does she take to cover the first half and the second half of the run?</p>
Chemistry	<ol style="list-style-type: none"> 1. Prepare the first term project based on Hydrocarbons. 2. Learn the chapters, Some basic concepts of chemistry and Hydrocarbons and prepare for the assessment. 3. Complete the practical record file.
Biology	<ol style="list-style-type: none"> 1. Read : Chapter 1: The living world. Chapter 2: Five kingdom Classification. Chapter 12: Cell-The unit of life Solve the higher order skill questions. 2. Complete the project assigned.
Accountancy	<ol style="list-style-type: none"> 1. Solve question number 1 to question number 10 from the chapter "Books of original entry: Journal". 2. Attempt all MCQ's from the following chapters: <ul style="list-style-type: none"> • Evolution of Accounting and Basic Accounting Terms. • Meaning, Objectives, Scope and Nature of Accounting. • Double Entry System. • Generally Accepted Accounting Principles.
Economics	<ul style="list-style-type: none"> * Solve the back exercises of Chapters 1, 2, 16, and 17. Also, learn and prepare the topics covered in the class for the unit assessment. * Complete the project on the following topic as per the discussion in the class: Types of Economic System with special reference to the economic system in



St. Mary's Convent Inter College

32, Thornhill Road, Prayagraj, UP - 211002

	USA.
Business Studies	<p>* Solve the back exercises including case study based questions of Chapters 1, 2, and 3. Also, learn and prepare the topics covered in the class from the given chapters for the unit assessment.</p> <p>* Complete the project on the following topic as per the discussion in the class: A Study of a Daily Use Consumer Product.</p>
History	<p>Read the chapters thoroughly and solve the questions based on analysis and understanding.</p> <p>Complete the project work.</p>
Fashion Designing	<p>1. Complete your Art File work.</p> <p>Stick figures</p> <p>8 head theory</p> <p>2. Complete your Embroidered Handkerchief.</p> <p>3. Complete your Fashion Designing fair work.</p> <p>Prepare your project by completing the following steps:</p> <ol style="list-style-type: none">1. Cover Page2. Index3. Acknowledgment4. Introduction of the Product5. Logo Designing6. Poster Making7. Materials Required8. Cost of Materials9. Calculation of Products cost10. Decorative Items Used11. Final Product Presentation12. Conclusion <p>Prepare for your Unit Assessment Examination.</p>
Psychology	<p>1. Complete the Project on Perception</p> <p>The project should include the following topics:</p> <ul style="list-style-type: none">- Title Page- Acknowledgments- Index Page- General Problem- Specific Problem- Basic Concept- Preliminaries- Materials Required- Plan of Work



Phone No.: 0532-2407617



Mobile No.: 9451881245



www.smcejallahabad.org



St. Mary's Convent Inter College

32, Thornhill Road, Prayagraj, UP - 211002

	<ul style="list-style-type: none">- Instructions- Data Collection- Statistical Analysis- Interpretation- Bibliography <p>2. Complete the answers of the following questions Chapter 1 (Section B) - Question No - 3,4,8,11,13,15 Chapter 1 (Section C) - Question No - 2 ,5, 7 ,8</p> <p>3. Revise Chapter 1- The Subject Psychology for Unit Test</p>
Legal Studies	<ol style="list-style-type: none">1. Create a Case Study Profile on the Justice K.S. Puttaswamy vs. Union of India case.2. The criminal justice system in India has undergone a historic shift from the colonial-era Indian Penal Code (IPC) to the Bharatiya Nyaya Sanhita (BNS). This transition is not just a change in section numbers, but a fundamental pivot in the "objective" of the law. Prepare a research on this transition.
Physical Education	Prepare the practical file work with Basketball.
Computer Science	<ol style="list-style-type: none">1. Complete the Assignment Questions provided for your Project.2. Revise the first chapter and class 10 syllabus thoroughly.
Business Studies	<p>Class 11 - Business Studies Holiday Homework :</p> <ul style="list-style-type: none">* Solve the back exercises including case study based questions of Chapters 1, 2, and 3. Also, learn and prepare the topics covered in the class from the given chapters for the unit assessment.* Complete the project on the following topic as per the discussion in the class: A Study of a Daily Use Consumer Product.
Art	<ol style="list-style-type: none">1. Draw and paint 2 nature study one Peeled pomegranate and coconut in half compose it as per your choice and paint with water colour / acrylic in your sketchbook.2. Compose a scene where children are playing hide and seek, one is hiding behind the tree others are trying to hide and paint beautifully.3. Craft: Make a 3 dimensional Moon texture lamp using texture paste /plaster of Paris .The size should be minimum 12 inches .The lights should be placed once the texture dries. Use your creativity to make it look aesthetic and real. Some examples are given below.



Phone No.: 0532-2407617



Mobile No.: 9451881245



www.smcejallahabad.org

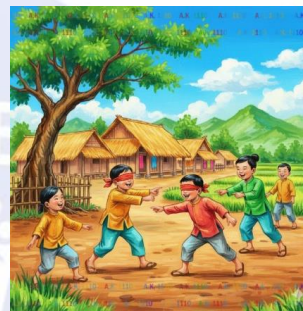
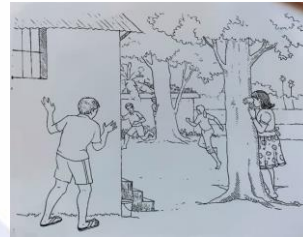


St. Mary's Convent Inter College

32, Thornhill Road, Prayagraj, UP - 211002



Nature study



Composition



3D Moon Lamp

Political Science

- 1) Design a newspaper front page based on: "India in 2040"
Include the following points:
Political news
Social reforms
Election headlines
Constitutional developments
- 2) Prepare a short comparative report on the Topic: "Politics Then and Now". You can interview your grandparent/elder.
- 3) Complete your project work neatly.



Phone No.: 0532-2407617



Mobile No.: 9451881245



www.smcejallahabad.org