ST. JOSEPH'S SCHOOL, MAHARAJGANJ
Summer Vacation Holiday Homework
CLASS 9

SUBJECTS	TOPIC / PORTION
ENGLISH	1. Make a chart on Tense 2. Learn 10 New words daily from your dictionary and make a list of them. 3. "Write a travel account on how you spent your summer vacation at your grandmother's house or any other places of your visit."
MATHEMATICS ACTIVITIES	1. B**udget Planning :** Prepare a monthly budget of your family. Include income, expenses (food, electricity travel, etc.). Represent data using a bar graph or pie chart. 2. **Geometry Around Us :** Take photo or draw objects showing: Circle (clock), Rectangle (door), Triangle (roof) . Explain their properties. (i) What is the maximum number of columns in which they can march? (ii) Which value is depicted by the students and teachers of the school by marching out against corruption? (iii) Which mathematical concept is used in the above problem? **TOPIC -1. The Geometry of Architecture (Euclid's Geometry & Quadrilaterals)** Objective: Investigate how geometric shapes, lines, and angles are used in famous monuments (e.g., Taj Mahal, Eiffel Tower). **Activity**: Collect pictures of these structures, overlay geometric lines, and identify parallel lines, congruent triangles, and types of quadrilaterals used. **TOPIC.2 Survey and Statistical Analysis (Data Handling)** **Objective: Apply statistics to real-world data**. **Activity**: Survey 20–30 people (classmates or neighbours) about a specific topic (e.g., daily screen time, favourite sports, or monthly electricity consumption). Organize the data using frequency distribution tables and represent it visually using bar graphs, histograms, or frequency polygons .**TOPIC.3. The Story of π \pi and Irrational Numbers** **Objective: Explore the history and practical measurement of π \pi**. **Activity:** Cut out 5 different-sized circular objects (bangles, plates, bottle caps). Measure their circumference (C) and diameter (D) using a string and ruler. Calculate the ratio {C}/{D} for each to prove it always approximates 3.14, and write a short biography on mathematicians like Aryabhata or Archimedes

	Topic.4. Designing a Budget / Linear Equations **Objective: Apply linear equations in two variables to real-life budgeting.** **Activity:** Create a scenario where you have a fixed budget (e.g., ₹500) to buy two types of items for a party (e.g., chocolates costing ₹20 each and juice boxes costing ₹50 each). Formulate the linear equation 20x + 50y = 500, find different solutions, and plot the graph.
SCIENCE ACTIVITIES	1. **Water Conservation Model** Make a simple model showing rainwater harvesting. Explain the process in 5-6 lines. "Prepare a gardening project during summer vacation. Plant a sapling, take care of it, record its growth, and paste pictures with a short report." Project should be handwritten. Use charts, drawings, slogans and pictures to make it attractive. Minimum 8–10 pages. Maintain neatness and creativity.
SST ACTIVITIES	**1. Map Work** On an outline map of India : Mark major rivers (Ganga, Yamuna, Brahmaputra, Godavari, Narmada). Mark states and their capitals **2. Local Study** Study about your district **Maharajganj** **1.** Population **2.** Famous places **3.** Main occupations **4.** Forest **5.** Rivers **6.** Highways **7.** Neighboring Country.