O. P. Jindal School, Patratu (Jh) 829143, INDIA

WINTER BREAK ASSIGNMENT (CLASS- IX)

SUBJECT	HOME WORK
English	**Theme: Winter Tales and Traditions** **1. Story Writing:** - Write an original story titled The Mystery of the Frozen Lake. Include suspense and vivid imagery on white A4 sheet. **2. Research and Report:** - Research how winter is depicted in literature, such as in Robert Frost's poems or Charles Dickens' works. - Write a 300-word report with examples on white A4 sheets. **3. Public Speaking:** - Prepare a speech titled Why Winter is the Best Season. - Include points on nature, festivals, and personal experiences on white A4 sheet.
Hindi	1."शीतकालीन छुट्टियों में समय का सदुपयोग" विषय पर दो मित्रों के बीच संवाद लिखिए। 2.'करत-करत अभ्यास के जड़मति होत सुजान' शीर्षक को आधार बनाकर एक लघुकथा लिखिए और उससे मिलने वाली शिक्षा भी लिखिए।
Maths	(1) Write all formula on mensuration and remember it. (2) Solve the following questions (a) A cone of height 8 m has a curved surface area 188.4 m^2 . Find its total surface area? (b) The height of a cone is 30 cm.A small cone is cut off at the top by a plane parallel to the base. If it's volume be 1/27 of the volume of the given cone,find the height above the base the section has been made ? (c) The sides of a right triangle is 7cm,24cm and 25 cm ,It is revolved about the side 25cm. Find the volume of double cone so formed (3) Draw a histogram by taking suitable data and frame 4 questions based on it, also write it's solutions.
Science	1. Draw a chart paper showing comparison between mitochondria and chloroplast with proper diagram. 2. Perform a activity keeping Raisin in three different solution – i. 2 tbsp salt solution , ii. 3tbsp tbsp solution iii. Normal water. Note the changes observed and phenomenon taking place in it. 3. What is the gold foil experiment? Name the scientist who performed this experiment. Write the conclusions and drawbacks of Rutherford's atomic model. 4. A bullet of mass 0.02Kg is fired from a gun weighing 7.5kg. If the initial velocity of the bullet is 200m/s, calculate the speed with which the gun recoils.

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Social Science	**History** Refer to the N.C.E.R.T. textbook of history. Make a timeline of the topic "Steps to Death" from chapter 3 named "Nazism and the Rise of Hitler".
	Geography 1. Give description of any five medicinal plants. 2. What steps have been taken by the government to protect the flora and fauna of the country? 3. Distinguish between Tropical Evergreen and Deciduous forests. 4. Name the different types of vegetation found in India and describe the vegetation of the high altitudes. 5. Mark the following on the given outline political mapof India. (a) Bharatpur Bird Sanctuary (b) Kaziranga National Park (c) Tropical evergreen forests (d) Mudumalai wildlife sanctuary (e) Simplipal National Park (f) Gir National Park (g) Manas National Park (h) Sanjay Gandhi National Park (i) Rajaji National Park (j) Bandipur National Park
	Economics 1. Find out and briefly explain at least 5 current programmes by the Government of India to alleviate poverty.
Computer	1. Evaluate the following equations using operator precedence and then test the result in the spreadsheet using OpenOffice Calc. (a) 10-8/2 (b) 10*10+7 (c) 4+4*4 (d) 2^6+10 (e) 4+3^4 (f) 10+7*2^2 (g) 10/2*4 (h) -15/2+2 2. Create a tree having different in-built functions in Spreadsheet using chart paper and scrap sheets.