

ITBP PUBLIC SCHOOL
CLASS IX
HOLIDAY HOMEWORK

S. NO	SUBJECT	HOLIDAY HOMEWORK
1	ENGLISH	<p>"The reading of all good books is like a conversation with the finest minds of past centuries." – Rene Descartes</p> <ul style="list-style-type: none"> • Read any English Newspaper daily. • Read any Novel of your choice and prepare narrative. • Read following stories: The adventures of Toto (Moments) Iswaran the Storyteller (Moments) <p>"Creativity is intelligence having fun." On the basis of reading of Iswaran the story teller, prepare comic strip of any story narrated by Iswaran. Prepare a beautiful collage of Sikkim. The collage must include Cuisine, Flora and Fauna, Festivals and tourists' attraction.</p> <p>WRITING</p> <ul style="list-style-type: none"> • Write a Descriptive paragraph on Sikkim in 100-120 words. • Write a short diary on 'My happiest day of Summer Break'. • Words and Expressions Part-1 – Do page 1 to page 7 in book. <p>Note: Use your grammar notebook for writing work.</p>
2	MATHEMATICS	<p><i>Summer is here and with it come your amazing holidays! But what's a holiday without some homework? So, Do your homework and be a hero this summer!</i></p> <p>General Guidelines for Students: Solve the worksheets in ruled sheets only. Use black and blue pens to write the questions and answers respectively. Complete your notebook work, and revise all the chapters done in class(Ch 1, 2, 3, 4) Do your work neat and clean.</p> <p>Activity: Make a chart (A-3 Size) of all the Algebraic Identities in Chapter – 2(Polynomials) and decorate it beautifully with the Art of Sikkim (Art Integration).</p> <p>Activity: Construct The Wheel of Theodorus (A-4 Size) and decorate it with the Ancient Art of Sikkim (Art Integration).</p> <p>Worksheet</p> <ol style="list-style-type: none"> 1. Is P (3, 2) & Q(2, 3) represent the same point? 2. In which quadrant points P(3,0), Q(6,0) , R (-7,0), S (0,-6), lie? 3. Draw the lines X'OX and YOY1 as the axes on the plane of a paper and plot the given points. (i) A (5,3) (ii) B (-3, 2) (iii) C (-5, -4) (iv)D (2,-6) 4. Find the mirror images of the following point using x-axis & y-axis as mirror. (i) A(2,3) (ii) B(2,-3) (iii) C(-2,3) (iv) D(-2,-3) 5. Draw the graph of the following equations (i) $y = 3x + 2$ (ii) $y = x$ 6. Draw a triangle with vertices O(0,0) A(3,0) B(3,4). Classify the triangle and also find its area. 7. Draw a quadrilateral with vertices A(2,2), B(2,-2), C(-2,-2), D(-2,2). Classify the quadrilateral and also find its area. 8. Find the coordinates of point which are equidistant from these two points P(3,0) and Q(-3,0). How many points are possible satisfying this condition? 9. In which quadrant will the point lie, if:- (i) ordinate is 3 and abscissa is – 7 (ii) abscissa is – 10 and ordinate is – 4 (iii) Ordinate is 4 and abscissa is – 6. 10. Fill in the blanks:- (i) The coordinates of the origin O are (ii) The y coordinate of every point on the x-axis is (iii) Distance along the x-axis is called (iv) Distance along the y-axis is called 11. Find the value of a and b if: $(3+\sqrt{2})/(3-\sqrt{2})=a+b\sqrt{2}$. 12. If $(\sqrt{7}-1)/(\sqrt{7}+1)-(\sqrt{7}+1)/(\sqrt{7}-1)=a+b\sqrt{7}$, find the values of a and b. 13. If $x = \sqrt{2}+1$, find the value of $(x-1/x)^2$ 14. If $x=2-\sqrt{3}$ find the value of $(x+1/x)^2$ 15. $(7\sqrt{3})/(\sqrt{10}+\sqrt{3})- (2\sqrt{5})/(\sqrt{6}+\sqrt{5})- (3\sqrt{2})/(\sqrt{15}+3\sqrt{2})$ 16. If $x= 9-4\sqrt{5}$, find x^2+1/x^2

		<p>17. Simplify: a) $12\sqrt[4]{5} \div 2\sqrt[3]{12}$ b) $\sqrt[4]{625-4\sqrt[3]{64+20\sqrt{(5\&32)}}$ 18. Express each of the following decimal in the form p/q i) 0.32 ii) 0.123 iii) 0.003(52) iv) 15.7(12) 19. Locate $\sqrt{2}, \sqrt{3}, \sqrt{5}, \sqrt{7}$ on number line. 20. Find the value of polynomial $8x^3 - 6x^2 + 2$ at $x = 1$ 21. If $p(x) = 6x + 5x^2 - 3x + 2$ find $p(-1)$ 22. $y = -1$ is a zero of the polynomial $q(y) = 4y^3 + ky^2 - y - 1$, then find the value of k. 23. Write an example of an algebraic expression that is not a polynomial. 24. Find the zero of the polynomial $p(y) = 2y + 7$. 25. Write the integral zeroes of the following polynomials i. $(x - 3)(x - 7)$ ii. $(x + 1)(3x + 2)$</p>
3	PHYSICS	<p>1. Submit a write-up on a noble prize winner in Physics along with his/her photograph 2. solve NCERT bsck exercise of chapter-8(motion)</p>
4	CHEMISTRY	<p>1. Prepare a chart or model on separating techniques of mixtures 2. List the name of atleast 10 metals and non metal from your surroundings and write down their physical characteristics.</p>
5	BIOLOGY	<p>1. Prepare a model on any given topic. 2. Make a portfolio on Natural resources. 3. do the assignment given from chapter cell.</p>
6	HISTORY	<p>A. Prepare a project file with following details: 1. The total length of the project report should not be more than 10-12 written pages of A-4 size sheet. 2. The project report should be handwritten and credit will be awarded to original drawings, illustrations and creative use of eco-friendly material. 3. The project report should be developed and presented in this order a) Cover page showing project title, student information, school and year. b) Certificate page c) Acknowledgement d) Index- List of contents with page numbers. e) Introduction f) Relevant content with headings g) Summary and conclusions based on findings. h) Bibliography: should have the Title, author, publisher and if a website the name of the website with the specific website link which has been used. Projects [Choose any one topic] Consumer Awareness: The content must cover the following: • Meaning of Consumer Awareness • Forms of Consumer Exploitation / Malpractices • Factors causing exploitation of the Consumers • Enactment of COPRA 1986 and its benefits • Role of WTO in protection of Consumers • Rights and Duties of the Consumers • Consumer Protection Measures • Relevant case studies (any two) OR Social Issues Prepare a project on any three of the following social evils still prevailing in our society; highlighting the reasons, effects and suggest solutions to get them eliminated from our country- • Poverty • Illiteracy • Corruption • Gender Inequality • Inflation, hoarding and panic buying during pandemic crisis • Domestic violence against women and child abuse The students must write about following key matter: a. Social issues in Indian Society b. Reforms initiated to combat the social issues c. Role of Popular leaders and movements. OR Sustainable Development The students must write about following key matter: a. Need of development. b. Importance of development c. Policies initiated to adopt measures for Sustainable Growth. B. Portfolio Activity Would you protest if a commodity that is dear to people is taken away or made unavailable? Imagine the role of Gandhiji in Salt March and write down how similar or differently you</p>
7	ECONOMICS	
8	GEOGRAPHY	
9	POLITICAL SCIENCE	

		<p>would have acted. To be written in history register and uploaded in Class notebook on teams. C. Health and physical education Activity Create an advertisement on healthy eating habits, importance of education and personal hygiene among your family members and peers as part of developmental goals. You can use Canvas or any other software tool/App. Upload the advertisement in Class notebook on teams.</p>
10	HINDI	<p>❖ 'दुःख का अधिकार' पाठ के आधार पर लेखक और बुढ़िया के बीच अपनी कल्पना से संवाद लिखिए। चित्र भी बनाकर अपने कार्य को आकर्षक बनाइए। (रंगीन A-4 साइज शीट में करें।)</p> <p>❖ पोशाक के माध्यम से हर व्यक्ति का दूसरों से प्रथम परिचय होता है। इस कथन को भिन्न-भिन्न चित्रों के माध्यम से स्पष्ट कीजिए। (रंगीन A-4 साइज शीट में करें।)</p> <p>❖ अपना परिचय देते हुए एक समाचार वाचक की तरह समाचार प्रस्तुत करते हुए दो से तीन मिनट की अपनी वीडियो बनाओ। अपनी प्रस्तुति को प्रभावशाली बनाने के लिए आप समाचार से संबंधित चित्र भी दिखा सकते हैं।</p> <p>❖ रैदास के पदों में जिन संत कवियों का परिचय दिया गया है, उनके चित्रों के साथ संक्षेप में उनके परिचय पर आधारित एक पोर्टफोलियो तैयार कीजिए। जैसे- नामदेव, सधना, सैना, तिलोचन आदि।</p> <p>❖ पाठ्यपुस्तक 'स्पर्श' के 'गद्य भाग' एवं 'पद्य भाग' के दो-दो पाठों को ध्यानपूर्वक पढ़कर प्रत्येक पाठ से 5-5 बोधात्मक प्रश्न लिखकर उनके उत्तर लिखिए। (ग्रीष्मावकाश कार्य उत्तर पुस्तिका में करें।)</p> <p>❖ हिंदी लेखन अभ्यास एवं सुधार हेतु एक सुलेख उत्तर पुस्तिका लगाएँ एवं उसमें 20 पेज सुलेख कार्य करें। (ग्रीष्मावकाश कार्य उत्तर पुस्तिका में करें।)</p> <p>❖ 'वीर रस' की किन्हीं दो कविताओं को कक्षा में 'कविता वाचन प्रतियोगिता' हेतु तैयार करें।</p> <p>❖ घर में उपलब्ध समाचार पत्र एवं पत्रिकाओं को पढ़कर पठन कौशल का अभ्यास करें।</p>
11	COMPUTERS	<p>Assignment :1-Chart Making on Elements of Communication. OR Chart making on visual communication. OR Chart on 7Cs of Effective Communication. Revise all the topics learnt in the class and complete your notebooks.</p>
12	MUSIC	<p>1. Make one Poster (sheet - A3 size) or A model Related to Music.</p> <p>2. Write and Learn National Anthem and National Song in correct pronunciation (In music notebook).</p> <p>3. Paste picture of one Indian Classical Singer/Musician and Classical Dancer and also Write an introduction in your Music Notebook. Write about his/her full name DOB, Achievements and Performances etc.</p> <p>4. Write any One Non- Filmy PATRIOTIC SONG in your music notebook</p>