



MATA JAI KAUR PUBLIC SCHOOL

CLASS IX / HOLIDAY HOME WORK 2017

SUBJECT	HOLIDAY HOMEWORK
ENGLISH	<p>1. Read the novel '<i>Three Men in a Boat</i>' by Jerome K. Jerome. A follow up subject enrichment activity will be taken up.</p> <p>2. Pick out 10 sentences in direct speech from the newspaper. Paste the cuttings and highlight them in your notebook. Then convert them into indirect speech.</p> <p>3. Write an interesting self composed poem in your notebooks(minimum 16 lines) using at least three poetic devices on any one of the following themes:</p> <ul style="list-style-type: none"><li>a. Nature</li><li>b. Adventure</li><li>c. Mystery</li><li>d. Childhood</li></ul> <p>The good ones may find a place in this year's school magazine.</p> <p>4. TED Talks are popular worldwide for 'Ideas Worth Spreading'. Watch the following links. They are worth a watch. (You must watch the first one first)</p> <p><a href="http://www.ted.com/talks/shashi_tharoor?language=en">http://www.ted.com/talks/shashi_tharoor?language=en</a></p> <p><a href="http://www.ted.com/talks/thomas_suarez_a_12_year_old_app_developer">http://www.ted.com/talks/thomas_suarez_a_12_year_old_app_developer</a></p> <p><a href="http://www.ted.com/talks/kiran_bedi_a_police_chief_with_a_difference">http://www.ted.com/talks/kiran_bedi_a_police_chief_with_a_difference</a></p> <p><a href="https://www.ted.com/talks/adora_svitak">https://www.ted.com/talks/adora_svitak</a></p> <p>A follow up activity on the same will be taken up in the E-lab.</p>



**HINDI**

**हिंदी ग्रीष्मावकाश कार्य - 2017**

कक्षा - नवम

विषय - हिंदी

(ए- 4 शीट पर)

**1. विज्ञापन निर्माण - दिए गए विषयों में से किंहीं दो विषयों पर विज्ञापन बनाइए -**

1. नारी शिक्षा
2. स्वास्थ्य - रक्षा
3. खादय - पदार्थ
4. जल - संरक्षण
5. वाटर - फिल्टर
6. दुधपेस्ट
7. केश - तेल
8. स्कूल - बैग

**2.WORKSHEET :** व्याकरण - अभ्यास - पत्र गृहकार्य कापी में करें



**MATA JAI KAUR PUBLIC SCHOOL**

**WORKSHEET CLASS : NINE MAY 2017**

**SUBJECT : HINDI**

**1. उचित स्थान पर अनुस्वार या अनुनासिक लगाएँ -**

गगा सुदर सपादन पक्ति लबा फजाव हिदी ससार अग फक सस्कार  
काति ऊचा महगाई साध वहा सास अगूठा आख मुह दात चाद कहा  
हस गाव जाव घूट उगली छलाग घस ऊट कापना मूग कामनाए छाव  
छाट सूह रक दत चद्र शारि रग अगूर अदा अत अतरिख अतर्धान  
अगारा अकुर लनदा मूछ मूगफली फार्सी आसू डाट गेहू काच झार्क  
पराठा धुआ पख पकी पथी कडा अलकार झडा दभ दड दगा नदन  
नगा शकर कुज लगूर वश खडन व्यजन सकट सग्राम सज्ञा सतुष्ट  
सचय अगारा लगोटी लाछन पहुच पूजी दूठ अगोछा आचल आवला काटा  
खडहर चादनी

**2. उचित स्थान पर नुक्ता का प्रयोग कीजिए -**

फतह फर्क फसाद सफाई जमीन मजदूर जेहन अँग्रेज तूफान काफिला  
जोरदाग डिगीजन गरज किज फेल फौज फर्श नजिल फँशन बर्फ  
सुराफात मजदूर मरीज रजाई तेजी किदा आफिसर वजीर वजीफा वजन  
मंजूर फौरन जिम्मेदारी

**3. वर्ण - विच्छेद कीजिए -**

प्रकार - -----	त्रास - -----
व्यर्थ - -----	झोत - -----
असंभव - -----	प्रिय - -----
प्रत्यक्ष - -----	श्रमिक - -----
ज्ञ - -----	सम्मान - -----

**4. दो मित्रों में 'दिल्ली में कबरे की समस्या' विषय पर लगभग 50-60 शब्दों में संवाद लिखिए ।**

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<b>PUNJABI</b>	<p>੧. ਕਾੱਪੀ ਵਿੱਚ ਕਰਵਾਏ ਗਏ ਸਾਰੇ ਕੰਮ ਦੀ ਮੌਖਿਕ ਤੇ ਲਿਖਿਤ ਦੁਹਰਾਈ ਕਰੋ</p> <p>੨. ਪੰਜਾਬੀ ਦੇ ਕਿਸੇ ਕਵੀ ਜਾਂ ਨਾਟਕਕਾਰ ਦੀ ਜੀਵਨੀ ਲਿਖੋ ( A-4 Size Sheet ) ਅਤੇ ( A-4 Size Sheet ) ਤੇ ਕੱਟਆਊਟ ਬਣਾਓ।</p> <p>੩. ਕੌਈ ਮੌਲਿਕ ( ਸਵੈ-ਰਚਿਤ ) ਕਵਿਤਾ/ਕਹਾਣੀ/ਲੇਖ/ਅਨੁਭਵ ਆਦਿ ਲਿਖੋ।</p>
<b>SCIENCE</b>	<p><b>Q 1</b> Now a day's many people go under the knife to enhance their looks and features. Which all organs are targeted ?Give your view points about the same (advantages and Disadvantages ) <b>OR</b> Collect and paste pictures of various hybrids in the world of both flora and fauna and support it with the help of their unique characteristics (eg. Pomato ,Liger)</p> <p><b>Q 2</b> An object travels 16 m in first 4 s and then another 16 m in 3 s .Is its motion uniform or non uniform ? Give reason for your answer.</p> <p><b>Q 3</b> The minute hand of wall clock is 10 cm long. Calculate its distance and displacement from 10 am to 10 :30 am .</p> <p><b>Q 4</b> A car moves with the speed of 30 km/h for half an hour , 25 km /h for one hour and 40 km/h for two hours . Calculate its average speed .</p> <p><b>Q 5</b> A person moves a distance of 3 km towards East and 2 km towards North and then 3.5 km towards East .Find the distance covered and displacement .</p> <p><b>Q 6</b> Explain how a human body maintains a constant temperature of about 37<sup>0</sup>C even when the outside temperature may be as high as 45<sup>0</sup> C .</p> <p><b>Q 7</b> Why does water boil at alower temperature at higher altitudes ?</p> <p><b>Q 8</b> Why do the doctors advise to put strips of wet cloth on the forehead of a person having a high fever ?</p> <p><b>Q 9</b> Why more serious burns are caused by steam at 100<sup>0</sup> C then waterat the same temperature ?</p> <p><b>Q 10</b> Why do plants acquire more leaves during summer ?</p> <p><b>Q 11</b> How is the high compressibility property of gas useful to us ?</p> <p><b>Q 12</b> Why do solid expand a bit on heating and contract a bit on cooling ?</p>



**Q 13** A balloon when kept in sun bursts after sometime . Why ?  
Note to be done in science assignment copy

**MATHEMATICS**

**A. Solve the following assignment from ch-1 and ch-2 on A-4 size sheets .**

1. Express  $2.417\bar{8}$  in the form  $\frac{a}{b}$ .
2. Visualize the representation of  $5.3\bar{7}$  on the no. line 3 decimal places.
3. If  $\frac{\sqrt{5}+\sqrt{3}}{\sqrt{5}-\sqrt{3}} = a + \sqrt{15} b$ , find the values of a and b
4. Simplify :  $\frac{1}{1+\sqrt{2}} + \frac{1}{\sqrt{2}+\sqrt{3}} + \frac{1}{\sqrt{3}+\sqrt{4}} + \dots + \frac{1}{\sqrt{8}+\sqrt{9}}$ .
5. Simplify : i.  $\left[\frac{81}{16}\right]^{-\frac{3}{4}} \times \left[\frac{25}{9}\right]^{-\frac{3}{2}}$   
ii.  $\frac{4}{[216]^{-\frac{2}{3}}} - \frac{1}{[256]^{-\frac{3}{4}}}$
6. Simplify :  $\sqrt[4]{81} - 8 \sqrt[3]{216} + 15 \sqrt[5]{32} + \sqrt{225}$
7. Arrange in ascending order:  $\sqrt[3]{2}, \sqrt[4]{3}, \sqrt[6]{5}$ .
8.  $x = 7 + \sqrt{40}$ , find  $\sqrt{x} + \frac{1}{\sqrt{x}}$ .
9. Evaluate:  $\left\{\sqrt{5 + 2\sqrt{6}}\right\} + \left\{\sqrt{8 - 2\sqrt{15}}\right\}$ .
10. If  $x = \frac{1}{2-\sqrt{3}}$ . Find the value of  $x^3 - 2x^2 - 7x + 5$ .
11. If A and B the remainders when the polynomials  $x^3 + 2x^2 - 5ax - 7$  and  $x^3 + ax^2 - 12x + 6$  are divided by  $(x+1)$  and  $(x-2)$  respectively and  $2A + B = 6$ , find the value of 'a'.
12. Factorise:  $27p^3 - \frac{1}{216} - \frac{9}{2}p^2 + \frac{1}{4}p$ .
13. If  $x = \frac{\sqrt{m+4n} - \sqrt{m-4n}}{\sqrt{m+4n} + \sqrt{m-4n}}$ , then show that  $2nx^2 - mx + 2n = 0$ .
14. If  $(x+y+z) = 6$ , find the value of  $(2-x)^3 + (2-y)^3 + (2-z)^3 - 3(2-x)(2-y)(2-z)$ .
15. If  $x=9+4\sqrt{5}$ , find the value of  $x^4 + \frac{1}{x^4}$ .
16. Varun was facing some difficulty in simplifying : -  
$$\frac{2}{\sqrt{5}+\sqrt{3}} + \frac{1}{\sqrt{3}+\sqrt{2}} - \frac{3}{\sqrt{5}+\sqrt{2}}$$
  
His classmate Priya gave him a clue to rationalize the denominator for simplification. Varun simplified the expression and thanked Priya for this goodwill.  
(i) How did Varun simplify ?



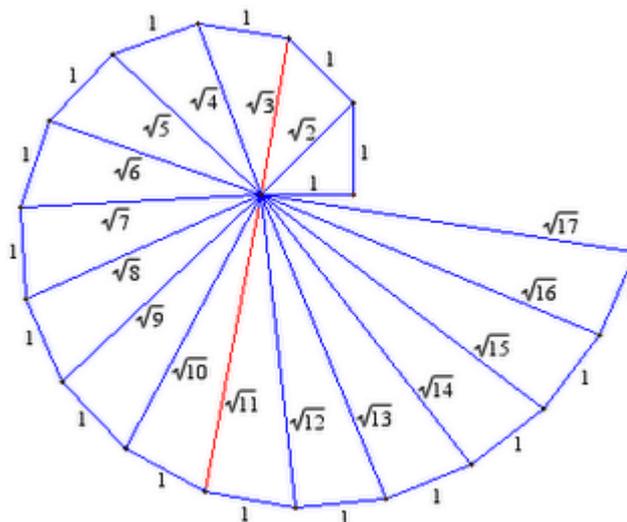
(ii) What values do the students indicate?

### B. SUBJECT ENRICHMENT ACTIVITIES

Do the following activities in the activity file . Write the objective, material required, pre-requisite knowledge, observation and conclusion of the activities.

( Students may refer to “guidelines for mathematics laboratory in schools for class IX”)

1. Make a square root spiral to represent the real numbers  $\sqrt{2}$ ,  $\sqrt{3}$ ,  $\sqrt{4}$ ,..... upto  $\sqrt{17}$  on the real number line. You may colour the different triangles in different colours or use the different coloured origami sheets to form the different triangles. Use your creativity and imagination to form a beautiful spiral.



2. To interpret geometrically the factors of a quadratic expression  $x^2 + 5x + 6$  using graph paper.

SOCIAL SCIENCE

## HISTORY

Prepare a Project given according to the roll no.-

- Roll no. 1-6  
Project 1-Women’s role in history  
Choose 2 from each field and document their lives, writings and their contribution. The women are to be chosen from women philosophers, political workers, revolutionaries, lawyers, doctors, soldiers, and social workers of the 19<sup>th</sup> and the 20<sup>th</sup> century. (India/International)
- Roll no. 7-12



**Project 2-Changing trends in cinema in the 20<sup>th</sup> century**

1. View at least 15 feature films of different time periods in the 20<sup>th</sup> century in Hindi or regional languages.
2. Evaluate the changing values that the film reflects about society.
3. Describe the change in the depiction of heroes and heroines over the years in the films.
4. Write a film review of at least 2 of the films for the newspapers.

• **Roll no. 13-18**

**Project 3-World peace and security**

Choose either of the Armed Forces or Civil Defence Forces in India and study:

1. The role that they play in India today.
2. Collect information about the areas where the Force has been called upon to maintain peace.
3. List the International Humanitarian Law and the Universal Declaration of Human Rights.
4. Interview at least one officer and soldier to find out what their duties involve and how they preserve Human Rights and Peace.

• **Roll no. 19-24**

**Project 4-Changing area under forest and its impact on environment**

1. Collect data of area under forest in different states of India since 1980 and interpret the trends.
2. Collect case studies on shifting agriculture and its impact in India/world.
3. Collect information on Forest Rights and Environment Policy of the Government in the Eighth, Ninth and Tenth Five Year Plans. Give your views on how these policies would help/hinder conservation.

• **Roll no. 25-30**

**Project 5-Conservation of Natural Resources**

Collect information on Bioreserves, National Parks and Wildlife Sanctuaries focusing on the policy of conservation of endangered species.

Collect pictures, travel writings, photographs and brochures to describe the special characteristics of these natural reserves.

• **Roll no. 31-36**

**Project 6-Water resources**

Choose any one river/water body in India and prepare a project. Some guidelines are given:

1. For rivers make maps on the source, course, catchment area, the tributaries, States benefitted.
2. Collect data on the length of the river, frequency of flooding and dams and reservoirs on them.
3. Geographic features formed by the river along its upper, middle and lower course-pictures, drawings etc.
4. For the water body identify its special characteristics, its location and extent, the geographical and geological history of the formation of the water body. Pictures and data on depth and area.



5. Legends associated with the river, songs related to water and river.
  6. How the river/water body benefits the people-system of water distribution in an urban or rural area.
  7. Problems associated with the river/water body.
  8. Conservation of the river/water body-traditional or modern methods of water conservation-some methods used.
  9. Issues related to water such as Big Dam development, contamination and purification of water, sharing of water resources.
- Roll no. 37-42  
Project 7-Elections in India
    - > Analyze the general election results or elections held in a state for Vidhan Sabha.,eg. - Punjab, U.P., Uttrakhand and Goa.
    - > What were the emerging trends in the voting patterns?
    - > What in your view would have been the reasons for this? Collect the opinion from various resources e.g., newspapers, editorials, interviews and current affairs programs and interviews of ordinary citizens.
    - > Read a few manifestos of political parties-draft a manifesto of your own and design an election symbol.
  - Roll no. 43-last  
Project 8-Rights
    - > Write the Bill of Rights of any two countries.
    - > Collect 10 news articles of each country where you find these rights have been violated.
    - > Write your own Bill of Rights.
  - The project must be supported by relevant pictures and maps.
  - The project must be handwritten and it must contain 15 pages (A-4 size).  
Pg. one-Acknowledgement  
Pg. two-Contents/Index  
Pg. three-Introduction  
Pg. four to thirteen-Explanations with the help of relevant pictures and maps  
Pg. fourteen-Conclusion  
Pg. fifteen-Bibliography

Distribution of marks is as follows:

S. NO.	ASPECTS	MARKS
1.	Content accuracy and originality.	1
2.	Presentation and creativity.	1
3.	Process of Project Completion: Initiative, cooperativeness, participation and punctuality.	1
4.	Viva or written test for content assimilation.	2

## GEOGRAPHY

1 Roll no. 1-7



	<p><b>Make a project on earthquake prone areas in India – causes, impact on life and property seismic zones, mitigation strategies used to reduce the impact in earthquake prone areas</b> <b>2 Roll no. 8-15</b> <b>Prepare a project report on landslides prone areas in India –causes, impact areas prone to landslides –mitigation strategies adopted in areas of landslides</b> <b>3 Roll no. 16-23</b> <b>Make a project on flood prone areas in India –causes and effect of floods, mitigation strategies-flood warning system</b> <b>4 Roll no. 24-31</b> <b>Collect information on areas prone to cyclones in India –warning systems, effects of cyclones, mitigation strategies to be used while construction of buildings.</b></p> <p><b>5 Roll no. 32-39</b> <b>Collect information on drought prone areas in India –causes, effects of drought on the life of the people. Mitigation measures adopted by the government to reduce the impact of drought</b> <b>6 Roll no. 40 onwards</b> <b>Collect information on chemical, industrial, nuclear and biological disasters in India .Effects of disaster on life and property .Mitigation strategy used to reduce the impact of disasters</b></p> <p><b><u>GUIDELINES FOR THE PROJECT-</u></b></p> <ol style="list-style-type: none"><li><b>1. Project to be done on A-4 size sheet</b></li><li><b>2. Project should be hand written for 15 pages</b></li><li><b>3. On the first page student Performa to be given- Name, Class, Roll no., Name of the school, Year of submission and topic</b></li><li><b>4. Acknowledgement</b></li><li><b>5. Content or Index</b></li><li><b>6. At the last Bibliography or references</b></li><li><b>7. Newspaper cuttings ,maps , diagram , illustrations are must</b></li><li><b>8. Project should be strictly based on India</b></li><li><b>9. Use your Disaster Management book for reference</b></li></ol>
<b>FIT</b>	<ol style="list-style-type: none"><li><b>1. Read Unit-I from your book (Basics of IT) and prepare a presentation covering all aspects.</b></li><li><b>2. Read Unit-II from your book (Information Processing Tools) and prepare for a class test after vacation.</b></li><li><b>3. Do the Word Processing assignment given in class covering the following Word Processing tools:</b><ol style="list-style-type: none"><li><b>a. Typing text</b></li><li><b>b. Editing a document</b></li><li><b>c. Formatting a document using all the formatting tools</b></li><li><b>d. Paragraph Formatting</b></li><li><b>e. Editing and formatting shapes</b></li></ol></li></ol>



	<p><b>Note: Take print-outs, attach them in a project file and submit after vacation for marking.</b></p> <p><b>4. Create a presentation on the topic 'Effects of Technology on Environment'. Include 3 benefits and 2 harmful effects of technology in your presentation. Save it on a pendrive.</b></p>
<b>ART</b>	<ul style="list-style-type: none"><li>• Draw and colour one Madhubani painting on A3 Sheets by using poster colour.</li><li>• Make a poster on A3 sheet Topic – Make your Environment Clean Or Save Water</li></ul>

**End**