



## **Holiday Homework: Class-X**

### ***Important Instructions:***

- *The holiday homework will be assessed as internal assessment.*
  - *All the home assignments provided through WhatsApp must be completed.*
- 

### **English**

*Your holiday homework this year is a fine blend of all the aspects of the language. It has been designed to ensure that you learn with fun.*

1. Write a letter to the Editor of a newspaper against the use of unfair means by students in examinations. Your name is Pankaj Walia and you live at 17, Model Town, Nawanshahar. (150-200 words)
2. Write a letter to the Editor of 'The Times of India' Complaining about the nuisance created by the use of loudspeakers. You are Piyush Sharma, a resident of sector 15, Vasundhara Enclave, New Delhi. (150-200 words)
3. Write a letter to the Sales Manager, Arya Publications, Ashok Vihar, Delhi, placing order for class IX reference books of all the subjects for educational purpose. You are Sanjeev/Sanjana, 12/CA, Model Town, Kurukshetra. (150-200 words)
4. You are interested in taking online classes from ALLEN, a reputed provider of online classes in Varanasi. Having found the site's information inadequate, write letter enquiring various details regarding the functioning of the classes that you intend to avail from. You are Udita/Udit from Bhopal. (150-200 words)
5. You are Nitu/Nihal. You bought a Microwave oven from Algrawal Electronics and electricals, Anuppur. It does not function properly. Write a letter to the Sales Manager of the shop, complaining about the defect and asking for immediate replacement or repair, as necessary. (150-200 words)
6. Write a letter to the editor of a national newspaper expressing your concern about the careless behaviour of the people of not following the lockdown properly. Also suggest ways how to remain safe and protected from this deadly disease. (150-200 words)
7. Watch any movie like Mary Kom, Three Idiots, Stanley ka dabba, Taare Zameen par, Udaan, Makdee, Hichki, I am kalam, etc. or any Hollywood science fiction movies that help inspire young minds. The movie must be age appropriate and parents'

acknowledgement is compulsory before you watch. After you complete watching, write a movie review of any two movies you have watched. You should give your movie review the form of a book/album or a photo stand. Draw/paste suitable picture to make your review look amazing.

8. Prepare a Collage with a catchy name like ‘**Nature’s Calling..Save Nature**’. You may use pictures in the newspaper/magazine available with you. If it’s not available, you may also draw if you can. Write suitable and catchy captions to make your collage look impressive. It shall be explained by you in the class as a part of **multiple assessments** when the school reopens.

9. Learn the given topics from the links provided and practice them in your English notebook:

a. Determiners: <https://www.learncbse.in/cbse-class-10-english-grammar-determiners/>  
<https://youtu.be/paZmDFwYB58>

b. Tense: <https://www.learncbse.in/cbse-class-10-english-grammar-tenses/>  
<https://youtu.be/cYAaGmICm3U>  
<https://youtu.be/pXZtRXpGNck>

c. Clauses: <https://www.learncbse.in/cbse-class-10-english-grammar-clauses/>  
[https://youtu.be/\\_jTydlA2Nno](https://youtu.be/_jTydlA2Nno)

d. Modals: <https://www.learncbse.in/cbse-class-10-english-grammar-modals/>  
<https://youtu.be/tkgaFERmSCM>  
<https://youtu.be/1o9twUvY7Qo>

e. Voice: <https://www.learncbse.in/cbse-class-10-english-grammar-active-passive-voice/>  
[https://youtu.be/My7XX\\_IzH4U](https://youtu.be/My7XX_IzH4U)  
<https://youtu.be/VT5kM7Ugpwg>

f. Reported Speech: <https://www.learncbse.in/cbse-class-10-english-grammar-direct-indirect-speech/>  
<https://youtu.be/RMlexWdwTuM>

<https://youtu.be/yML5gg26MUA?list=RDCMUCayJSRMRgQEQo71zBySi-RQ>

g. Preposition: <https://www.learncbse.in/cbse-class-10-english-grammar-prepositions/>  
<https://www.cbsetuts.com/cbse-class-6-english-grammar-correct-uses-prepositions/>  
<https://youtu.be/acTcYV9fLCs>

h. Subject – Verb Concord (Agreement): <https://www.learnbse.in/cbse-class-10-english-grammar-subject-verb-concord/>

<https://www.toppr.com/guides/english/verb/subject-verb-concord/>

<https://youtu.be/Hi4F7USqWAY>, [https://youtu.be/5\\_1BRq9iil0](https://youtu.be/5_1BRq9iil0)

**Note: It's a part of internal assessment. So, it has to be done diligently and must be produced when asked for submission.**

### Hindi

१) मीराबाई, सुभद्रा कुमारी चौहान, महादेवी वर्मा, सरोजिनी नायडू, अमृता प्रीतम का जीवन परिचय निम्न बिन्दुओं पर लिखिए (जन्मा/मृत्यु, रचनाएं, शिक्षा, साहित्यिक योगदान) कार्ड के रूप में बनाना है। [पहले पेज में साहित्यकार का नाम और चित्र तथा अन्दर उपर्युक्त बिन्दुओं को लिखना है ]

1. २) स्वरचित पांच कहानियों का संकलन पुस्तक के रूप में तैयार कीजिये। मुख्य पृष्ठ का शीर्षक स्वयं लिखिए तथा उनके लिए बुकजैकेट बनाइए ।
2. ३) मास्क, सेनेटाइज़र, मोबाइल फ़ोन बेचने के लिए, पुरानी बाइक बेचने के लिए तथा स्वास्थ्य विभाग के तरफ से कीटनाशक छिडकाव के लिए आकर्षक विज्ञापन तैयार कीजिये।
3. ४) कबीर की साखी याद कीजिए तथा कलात्मक ढंग से लिखिए ।
4. [http://ncertbooks.prashanthellina.com/class\\_10.Hindi.Sparsh/k-1.pdf](http://ncertbooks.prashanthellina.com/class_10.Hindi.Sparsh/k-1.pdf)
5. ५) ONLINE HOME ASSIMENTS का अभ्यास कीजिए ।
6. ६) 'मीरा के पद' पाठ के अतिरिक्त कोई दो पद याद कीजिए और लिखिए ।
7. ७) 'संचयन' से हरिहर काका और टोपी शुक्ला पाठ पढ़िए और उसका सार नैतिक मूल्यों के आधार पर लिखिए ।
8. [http://ncertbooks.prashanthellina.com/class\\_10.Hindi.SanchayanBhag2/ch-1.pdf](http://ncertbooks.prashanthellina.com/class_10.Hindi.SanchayanBhag2/ch-1.pdf) ( हरिहर काका )
9. [http://ncertbooks.prashanthellina.com/class\\_10.Hindi.SanchayanBhag2/ch-3.pdf](http://ncertbooks.prashanthellina.com/class_10.Hindi.SanchayanBhag2/ch-3.pdf) ( टोपी शुक्ला )



- Q5. The HCF of two numbers is 145 and their LCM is 2175. If one number is 725, find the other.
- Q6. The product of two numbers is 20736 and their HCF is 54, find their LCM.
- Q7. After how many places of decimals, the decimal expansion of the rational number will terminate?
- Q8. State the fundamental theorem of Arithmetic.
- Q9. Express each of the following as the product of primes.  
 (a) 6435                      (b) 8085                      (c) 2184
- Q10. Show that the square of any positive integer is of the form  $3q$ ,  $3q + 1$ ,  $3q + 2$  for some positive integer  $q$ .
- Q11. Prove that  $5 + 2\sqrt{3}$  is an irrational number.

**Topic: Polynomials**

- Q1. If  $(x + k)$  is a factor of  $2x^2 + 2kx + 5x + 10$ , find  $k$ .
- Q2. If  $\alpha$  and  $\beta$  are the zeroes of the polynomial  $p(x) = 3x^2 - 5x + 6$ , find  
 (i)  $(\alpha / \beta) + (\beta / \alpha)$       (ii)  $\alpha^3 + \beta^3$
- Q3. Find the quadratic polynomial whose zeroes are  $2/3$  and  $-1/4$
- Q4. Find a polynomial whose zeroes are squares of the zeroes of the polynomial  $3x^2 - 6x - 9$ .
- Q5. If '1' is one of the zeroes of the polynomial  $p(x) = 7x^3 - x^3 - 6$  find its other zeroes.
- Q6. Find the quadratic polynomial, sum and product of whose zeroes are 2 and  $-1$  respectively.
- Q7. If the sum of the zeroes of the quadratic polynomial  $kx^2 + 2x + 3k$  is equal to their product, find  $k$ .
- Q8. Find a polynomial whose zeroes are 2, 1 and  $-1$ . What is its degree?
- Q9. Find the polynomial whose zeroes are reciprocals of the zeroes of the polynomial  $2x^2 + 3x - 6$ .
- Q10. Find the ratio of the sum and product of the zeroes of the polynomial  $5x^2 + 2x - 10$ .
- Q11. If  $\alpha$ ,  $\beta$  and  $\gamma$  are the zeroes of the cubic polynomial  $p(x) = 3x^3 - 6x^2 + 5x - 3$ , then, find their sum and product.

Q12. Divide  $3 - x + 2x^2 + x^3 - 3x^4$  by  $(2 - x)$  and verify by division algorithm.

Q13 Find all the zeroes of the polynomial  $p(x) = x^4 - 7x^3 + 9x^2 + 13x - 4$ , if two of its zeroes are  $2 + \sqrt{3}$  and  $2 - \sqrt{3}$ .

Q14. What must be subtracted from  $8x^4 + 14x^3 - 2x^2 + 7x - 8$  so that the resulting polynomial is exactly divisible by  $4x^2 + 3x - 2$ .

Q15. Find all the zeroes of the polynomial  $f(x) = 2x^4 - 3x^3 - 5x^2 + 9x - 3$ , if two of its zeroes are  $\pm \sqrt{3}$ .

## Physics

1. Draw image formation of concave mirrors and convex lens.
2. Draw the Well labeled diagram of Human eye.
3. Draw the well label diagram of electric motor and electric generator.
4. Write and learn 3 -3 advantages and disadvantages of all the conventional and non-conventional source of energy.
5. Write and learn 3 uses of concave mirrors and convex mirror
6. Write all the questions of chapter 14 in your note book.
7. Prepare a working model on following topics (Roll number Wise)
  - Make a table lamp by using waste products (Roll no. 1 ,2 & 3).
  - Build a smart phone projector (Roll no. 4, 5 & 6).
  - Make a modern LED infinity illusion mirror (Roll no. 7, 8 & 9)
  - non- stop heron's Fountai ( Roll no. 10, 11 & 12).
  - Working model on sound (Roll no. 13, 14 & 15)
  - Working model on electricity (Roll no. 16, 17 & 18)
  - Make a modern LED infinity illusion mirror (Roll no. 19, 20 & 21)
  - non- stop heron's Fountain ( Roll no. 22, 23 & 24).

Question 8. Write working of humane eye.

Question 9. Write 2 similarity and one dissimilarity between image formed by pane mirror and convex mirror.

### **Biology**

1. Learn the topics taught.
2. Draw the diagram to show the Digestive system, respiratory system, circulatory system, excretory system and feeding process of amoeba in a A4 size Paper.
3. Plan a model to: increase the efficiency of any machine or transport, Reduce the global issues, Save energy, solve health issues and agricultural problems, etc.
4. Choose any topic from your NCERT book and make a video while teaching it.
5. Write the functions of the following enzymes: trypsin, lipase, pepsine, salivary amylase.
6. What happens with the food in our stomach?
7. How is bile juice useful to us? Where is it secreted and stored?
8. Explain the process of circulation of blood from our heart with the help of suitable diagram.
9. What is double circulation? In which organism is it observed? How is it beneficial to them?
10. Explain with the help of chemical reactions: addition reaction, substitution reaction, exothermic reaction, endothermic reaction, redox reaction, displacement reaction, decomposition reaction.

## Social Science

1. Prepare all the maps from the following map list prescribed by CBSE for session 2020-21:

### **HISTORY (Outline Political Map of India)**

#### **Chapter - 3 Nationalism in India –**

##### **1. Indian National Congress Sessions:**

- a. Calcutta (Sep. 1920) b. Nagpur (Dec. 1920) c. Madras (1927)

##### **2. Important Centres of Indian National Movement**

- a. Champaran (Bihar) - Movement of Indigo Planters
- b. Kheda (Gujarat) - Peasant Satyagrah
- c. Ahmedabad (Gujarat) - Cotton Mill Workers Satyagraha
- d. Amritsar (Punjab) - Jallianwala Bagh Incident
- e. Chauri Chaura (U.P.) - Calling off the
- f. Dandi (Gujarat) - Civil Disobedience Movement

### **GEOGRAPHY (Outline Political Map of India)**

#### **Chapter 1: Resources and Development (Identification only)**

- a. Major soil Types

#### **Chapter 3: Water Resources (Locating and Labelling)**

- Dams:** a. Salal b. Bhakra Nangal c. Tehri d. Rana Pratap Sagar e. Sardar Sarovar  
f. Hirakud g. Nagarjuna Sagar h. Tungabhadra

#### **Chapter 4: Agriculture**

- a. Major areas of Rice and Wheat b. Largest / Major producer states of Sugarcane, Tea, Coffee, Rubber, Cotton and Jute

#### **Chapter 5: Minerals and Energy Resources Minerals**

- a. **Iron Ore mines** • Mayurbhanj • Durg • Bailadila • Bellary • Kudremukh
- b. **Coal Mines** • Raniganj • Bokaro • Talcher • Neyveli
- c. **Oil Fields** • Digboi • Naharkatia • Mumbai High • Bassien • Kalol • Ankaleshwar

##### **Power Plants (Locating and Labelling only)**

- a. **Thermal** • Namrup • Singrauli • Ramagundam
- b. **Nuclear** • Narora • Kakrapara • Tarapur • Kalpakkam

## Chapter 6: Manufacturing Industries

**Cotton Textile Industries:** a. Mumbai b. Indore c. Surat d. Kanpur e. Coimbatore

**Iron and Steel Plants:** a. Durgapur b. Bokaro c. Jamshedpur d. Bhilai

e. Vijaynagar f. Salem

**Software Technology Parks:** a. Noida b. Gandhinagar c. Mumbai d. Pune

e. Hyderabad

f. Bengaluru g. Chennai h. Thiruvananthapuram

## Chapter 7: Lifelines of National Economy

### Major Ports:

a. Kandla b. Mumbai c. Marmagao d. New Mangalore e. Kochi f. Tuticorin

g. Chennai

h. Vishakhapatnam i. Paradip j. Haldia

**International Airports:** a. Amritsar (Raja Sansi) b. Delhi (In

### 2. Prepare a project on any one of the following disasters:

(i) Earthquake

(ii) Volcanic eruption

(iii) Tsunami

(iv) First Aid pocket book

### 3. Prepare a project on consumer rights.

4. Download e-book from the link provided, read the following chapters and frame 8 to 10 questions within the text on your own along with the answers:

**Link:** <http://ncert.nic.in/textbook/textbook.htm?iess2=1-4>

(i) Geography- Chapter 1

(ii) Democratic Politics- Chapter 1 & 2

(iii) Economics- Chapter 1

## Art & Craft

ART- Draw any two pencil sketch of your choice and give light & shadow effect on them.

Draw two examples of each :- (a) One vanishing point perspective

(b) Two vanishing point perspective

(C) Three vanishing point perspective.

Make any nature scene or land scape. (medium – poster colour ,water colour, Or collage work.

CRAFT- Make any two craft by using waste plastic bottles or milk powder box or any other waste materials Or make any two wall hanging craft for home decor.

Example- Newspaper jar, broom from plastic bottle, wall hanging paper flower holder etc.

Note- For craft making ideas please find in YouTube.

CRAFT- Make any two craft by using waste plastic bottles or milk powder box or any other waste materials Or make any two wall hanging craft for home decor.

## Music

- Learn these Notations/Alankar daily 3 to 5 times
  - Sa, Re, Ga, Ma, Pa, Dha, Ni, Sa  
Sa, Ni, Dha, Pa, Ma, Ga, Re, Sa
  - SaReGa, ReGaMa, GaMaPa, MaPaDha, PaDhaNi, DhaNiSa  
SaNiDha, NiDhaPa, DhaPaMa, PaMaGa, MaGaRe, GaReSa
  - SaReGaMa, ReGaMaPa, GaMaPaDha, MaPaDhaNi, PaDhaNSa  
SaNiDhaPa, NiDhaPaMa, DhaPaMaGa, PaMaGaRe, MaGaReSa
  - SaReGaMaPa, ReGaMaPaDha, GaMaPaDhaNi, MaPaDhaNiSa  
SaNiDhaPaMa, NiDhaPaMaGa, DhaPaMaGaRe, PaMaGaReSa
  - SaReGaMaPaDha, ReGaMaPaDhaNi, GaMaPaDhaNiSa  
SaNiDhaPaMaGa, NiDhaPaMaGare, DhaPaMaGaReSa
- Learn all Prayers from your old music notebook.
- Make one PPT about the famous Instrumentalist of the Indian Music.