



Holiday Homework: Class-X (22-23)

Important Instructions:

- *The holiday homework will be assessed as internal assessment.*

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. LETTER WRITING ACTIVITY: Write the following letters:

- 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)
- 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)
- 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)
- 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 Udit/Udit from Bhopal. (150-200 words)
- 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)
- 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)

2. COMIC STRIP ACTIVITY: Prepare a Comic Strip on Any social theme from the contemporary issues. Give it a suitable and catchy heading to make it look impressive. It shall be explained by you in the class as a part of **Multiple Assessments/Portfolio** when the school reopens. You may use an A4 Sheet for the activity.

3. DIARY WRITING ACTIVITY: Make a small notebook/a diary your personal diary. Cover it and decorate it as well as you do to the most favourite thing of yours. Give your diary a cute/funny name as you name your friend/pets. Write a page of the everyday events of your daily life in the diary. Draw/paste pictures to make the entry memorable. Follow the format.

4. FUN WITH GRAMMAR: Learn the given topics from the links provided and practice them in your English notebook:

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

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

c. Clauses: <https://www.learnbse.in/cbse-class-10-english-grammar-clauses/>
https://youtu.be/_jTydlA2Nno

d. Modals: <https://www.learnbse.in/cbse-class-10-english-grammar-modals/>

<https://youtu.be/tkgaFERmSCM>

<https://youtu.be/1o9twUvY7Qo>

e. Voice: <https://www.learnbse.in/cbse-class-10-english-grammar-active-passive-voice/>

https://youtu.be/My7XX_IzH4U

<https://youtu.be/VT5kM7Ugpgw>

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

<https://youtu.be/RMlexWdwTuM>

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

g. Preposition: <https://www.learnbse.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

Hindi

१) मीराबाई, सुभद्रा कुमारी चौहान, महादेवी वर्मा, सरोजिनी नायडू, अमृता प्रीतम का जीवन परिचय निम्न बिन्दुओं पर लिखिए (जन्म/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]

२) कस्तूरी के विषय में जानकारी प्राप्त कीजिए तथा पाँच से छह पंक्तियों में लिखिए ।

३) मोबाइल फ़ोन बेचने के लिए, पुरानी बाइक बेचने के लिए तथा स्वास्थ्य विभाग के तरफ से कीटनाशक छिड़काव के लिए आकर्षक विज्ञापन तैयार कीजिये। (लेखन कार्य हिंदी कॉपी में करना है)

४) कबीर की साखी याद कीजिए तथा कलात्मक ढंग से लिखिए ।

५) 'शिक्षा रटंत विद्या नहीं है' - इस विषय पर परिचर्चा तैयार कीजिए ।

६) 'मीरा के पद' पाठ के अतिरिक्त कोई अन्य दो पद याद कीजिए तथा लिखिए ।

Mathematics

PROJECT WORK

(PREPARE A PROJECT FILE)

Watch the video and with the help of Wikipedia link provided below, write the biography of Bhaskara-II (also known as Bhaskaracharya) including his mathematical achievements. Also paste his photograph (post card size).

<https://youtu.be/7IAVj3MZtfl> (VIDEO TIME-30.12 MINUTES)

https://en.wikipedia.org/wiki/Bh%C4%81skara_II

ART INTEGRATED ACTIVITY

(TO BE DONE IN MATH ACTIVITY NOTE BOOK)

Watch the video (link provided below)

(1) How to find the H.C.F. of two numbers by paper cutting activity.

(2) Prepare a model to represent the different types of algebraic identities through paper cutting activity.

<https://youtu.be/Wa5bGgtxNO8> (VIDEO TIME 2.14 MINUTES)

https://youtu.be/RR_1OMK_Ww (VIDEO TIME 4.57 MINUTES)

WORKSHEET

(TO BE DONE IN MATHS CLASS WORK NOTE BOOK)

Q.1: Express each number as a product of its prime factors:

(i) 140 (ii) 156 (iii) 3825 (iv) 5005 (v) 7429

Q.2: Given that $HCF(306, 657) = 9$, find $LCM(306, 657)$.

Q.3: Without actually performing the long division, state whether the following rational numbers will have a terminating decimal expansion or a non-terminating repeating decimal expansion: (i) $13/3125$ (ii) $17/8$ (iii) $64/455$ (iv) $15/1600$

Q.4: Check whether 6^n can end with the digit 0 for any natural number n.

Q.5: What is the HCF of the smallest prime number and the smallest composite number?

Q.6: Using Euclid's Algorithm, find the HCF of 2048 and 960.

Q.7: Find HCF and LCM of 404 and 96 and verify that $HCF \times LCM = \text{Product of the two given numbers}$.

Q.8: Mention whether the following numbers are rational or irrational:

(i) $(\sqrt{2} + 2)$ (ii) $(2 - \sqrt{2}) \times (2 + \sqrt{2})$ (iii) $(\sqrt{2} + \sqrt{3})^2$ (iv) $6/3\sqrt{2}$

Q.9: Simplify: (i) $7^{2/3} \cdot 7^{1/5}$ (ii) $10^{1/2}/10^{1/4}$

Q.10: Write the smallest number which is divisible by both 360 and 657.

REFERENCES: -

N.C.E.R.T. TEXT BOOK

<https://youtu.be/GBW3I0mjUvI> (COMPLETE VIDEO ON REAL NUMBERS, TIME 57.34 MINUTES)

<https://youtu.be/Rgg7P7DLx94> (COMPLETE VIDEO ON POLYNOMIALS, TIME 37.50 MINUTES)

Science (PHYSICS)

- 1) Prepare a record of Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determining its resistance. Also plotting a graph between V and I.
- 2) To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.
- 3) To study sliding friction on horizontal and inclined planes.
- 4) Determine efficiency of different fuels and batteries.
- 5) To study liquid pressure at a point due to liquid filled in containers of different shapes.
- 6) Make a survey of events where you notice inter-conversion of different forms of energy. Hence list the names of transducers.
- 7) Prepare a report on the following topics: -
 - (a) The Risks of Static Electricity in the Petroleum Industry
 - (b) Static Electricity as Strong as Lightning can be Saved in a Battery

(CHEMISTRY)

Note: Do any three of the following activities.

1. To prepare a life sketch including biographical information and significant contribution of any Indian scientists.

TOPIC: LEGENDS OF INDIAN SCIENCE

Instructions:

-Prepare a life sketch of any one scientist in the form of BIOGRAPHY BOOKS/ LAPBOOKS.

-Use library/ encyclopaedia/ online resources to undertake in-depth research.

-Book should cover the following information of the scientists:

- (a) Sketch/ Portrait of the Scientist
- (b) Date and Place of birth and death
- (c) Nationality
- (d) Significant Contributions to the society
- (e) Relevance/ Application in day-to-day life
- (f) Awards
- (g) Inspirational quotes

2. BE THE BUDDING SCIENTISTS!

Design your own experiment and feel like a scientist.

Instructions:

-Choose any topic related to Physics/ Biology/ Chemistry and design an experiment using simple things around to explain laws, principles, phenomena around us.

-Prepare a working model or an activity and also a chart related to it.

3. Make a wind chime using metallic waste materials to show that metals are sonorous.

Instructions:

-You may use coloured strings, Coat hangers, thin strips or rods or metal nuts and bolts/ any other object that you think will produce a pleasant sound. Tie a piece of string to the objects and arrange them on the hanger. The heavier items should be towards the middle so that the wind chime is balanced. Hang your wind chime and switch on the fan to test it.

4. You may have noticed that most packed items we get from the market have 'best before' or 'expiry' dates on them. These are the dates before which the manufacturers intend these foods to be consumed. Check the packets of different types of food items like chips, biscuits, dairy products, chocolates, jam, ketchup, juices etc. and complete the following table.

Product name	Method of packing (Sealed bag, tetra pack, bottle, can, carton etc.)	Manufacturing date	Expiry date/ best before date

(i) Which type of foods have the shortest 'best before' / expiry duration?

(ii) Which type of foods have the longest expiry duration?

(iii) Also, find out why it is considered unhealthy to consume foods after the 'best before'/expiry date.

Prepare a report based on your findings on A4 sized sheets.

5. Prepare a project report on ancient India's contribution to science and technology.

(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.

Social science

- Prepare a project on any one topic:
 - (i) Consumer awareness
 - (ii) Social Issues
 - (iii) Sustainable Development

Note: Follow the following instructions while preparing the project:

- The Project Report should be handwritten by the students themselves.
- If possible, different forms of art may be integrated in the project work.

- Make a project showing consumption and conservation of resources in our country.
- Imagine if oil supplies get exhausted, how will this affect our life style? Prepare a poster on the same.

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.

Music

1. Listen songs in different moods.
2. Practice Alankar on daily basis.
3. Practice Alankar 1-5 on daily basis from this link <https://youtu.be/JIFMN6E9DA>
4. Riyaz Om with this link <https://youtu.be/nSMqQ-1nE2c>