



## **Holiday Homework: Class-IX (22-23)**

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

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

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

**1. MOVIE REVIEW WRITING ACTIVITY:** Watch any movie like Mary Kom, Dangal, Stanley ka Dabba, Taare Zameen Par, Udaan, Makdee, Hichki, I am Kalam, Nil Bate Sannata, etc. 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 may give your movie review the form of a book/album or a photo stand. You may draw/paste suitable picture to make your review look amazing.**

### **2. MEET THE LITTERATEUR:**

a) Read and explore about the given writers –

- Sarojini Naidu
- Arundhati Ray
- Mulkraj Anand
- Kiran Desai
- Dr. A P J Abdul Kalam
- Anita Desai
- Amitav Ghosh
- Salman Rushdie
- R K Narayan
- Rabindranath Tagore
- Jumpa Lahiri
- Ruskin Bond
- Raja Rao
- Arvind Adiga
- Munshi Premchand

Use A4 Sheets & colours. On the sheets, provide the following information about the author-

- Date of birth, name of parents & education
- Popular literary works
- Awards received.

Also draw or paste pictures. It shall be explained by you in the class as a part of **multiple assessments/Portfolio** when the school reopens.

**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.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.learncbse.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)

**5. PARAGRAPH WRITING ACTIVITY:** Write a descriptive paragraph on the given topics in 120-150 words each:

a. Digital India: The Need of the Hour

b. Social media: Boon or Bane

c. The Nation of my Dreams

**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) रामविलास शर्मा, यशपाल, रैदास, रहीम के जीवन परिचय का कार्ड निम्न बिन्दुओं के आधार पर बनाइए- जन्म, मृत्यु, रचनाएँ, शिक्षा, साहित्यिक योगदान | (पहले पृष्ठ में साहित्यकार का नाम, चित्र तथा अन्य पृष्ठ में उपर्युक्त बिन्दुओं को लिखिए)
- २) 'बेटी बचाओ बेटी पढ़ाओ' पर दो-दो नारा कलात्मक ढंग से लिखिए |
- ३) शुभकामना सन्देश ३० से ४० शब्दों में कार्ड बनाकर लिखिए |
- ४) दैनंदिनीय (Daily Diary) लिखिए जिसमें आपको अपनी प्रतिदिन की दिनचर्या दिनांक सहित चार से पाँच पंक्तियों में लिखना है | (डायरी को सुंदर ढंग से बुकजैकेट के साथ प्रस्तुत कीजिए |
- ५) 'स्पर्श' पुस्तक से रहीम के दोहे याद कीजिए |

### Maths

(PREPARE A PROJECT FILE)

Watch the video and with the help of Wikipedia link provided below, write the biography of Srinivasa Ramanujan including his mathematical achievements. Also paste his photograph (post card size).

<https://youtu.be/FsLEnVXyhC8> ( VIDEO TIME-10.00 MINUTES)

[https://en.wikipedia.org/wiki/Srinivasa\\_Ramanujan](https://en.wikipedia.org/wiki/Srinivasa_Ramanujan)

### ART INTEGRATED ACTIVITY

(TO BE DONE IN MATH ACTIVITY NOTE BOOK)

Watch the video (link provided below) and (1) Prepare a model to represent the different types of numbers through paper cutting activity. (2) Prepare a model to represent the different types of algebraic identities through paper cutting activity.

<https://youtu.be/A4zDec4KnIQ> (VIDEO TIME 8.03 MINUTES)

[https://youtu.be/RR\\_1OMK\\_Ww](https://youtu.be/RR_1OMK_Ww) (VIDEO TIME 4.57 MINUTES)

### ASSIGNMENTS

(TO BE DONE IN MATHS CLASS WORK NOTE BOOK)

**Q.1:** Find five rational numbers between 1 and 2.

**Q.2:** Find five rational numbers between  $\frac{3}{5}$  and  $\frac{4}{5}$ .

**Q.3:** Locate  $\sqrt{3}$  on the number line.

**Q.4:** Find the decimal expansions of  $\frac{10}{3}$ ,  $\frac{7}{8}$  and  $\frac{1}{7}$ .

**Q.5:** Visualise 3.765 on the number line, using successive magnification.

**Q.6:** Add  $2\sqrt{2} + 5\sqrt{3}$  and  $\sqrt{2} - 3\sqrt{3}$ .

**Q.7:** Simplify:  $(\sqrt{3} + \sqrt{7})(\sqrt{3} - \sqrt{7})$ .

**Q.8:** Rationalise the denominator of  $\frac{1}{[7+3\sqrt{3}]}$ .

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

**Q.10:** What is the value of  $(256)^{0.16} \times (256)^{0.09}$ ?

REFERENCES: -

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

<https://youtu.be/B-mFYTCGm28> (COMPLETE VIDEO ON NUMBER SYSTEMS, TIME 66.30 MINUTES)

<https://youtu.be/qdfWmUE0t7k> ( COMPLETE VIDEO ON POLYNOMIALS, TIME 97.27 MINUTES)

### Science

#### Physics

Q1. Design an experiment to find the speed of your favourite object? Make a data Table between distance and time. Use the gradient of distance – time graph to find the correlation between distance and time. Also hence comment on its speed at 5 different intervals of time.

Q2. (a) Make a 7 Layer Density tower using your favourite Liquids/solids. Share your experience using photographs  
(b) How do you think the density of liquids will change if you increase their concentration? Form a hypothesis and design an experiment to investigate the research question.

Q3. Newton's laws of motion are an inherent part of our everyday life. Starting from the beginning of the day till the end, Newton's laws find their applications in a number of activities we do and paste its picture.

Q4. Make a presentation on Production of sound in humans and noise pollution, its cause and effects using figures & pictures.

Q5. Explain relation of motion with Rough Surface and Friction by illustrating various examples. How can we increase or decrease the friction? Also mention what are the advantages and disadvantages of friction?

### 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:

- Sketch/ Portrait of the Scientist
- Date and Place of birth and death
- 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 any working model which is based on theme best out of waste**

**Instructions: Prepare a working model or an activity and also a chart related to 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 on Ayurveda in Chemistry point of view.

**Biology**

1. Make a 3D Model of plant and animal cell and study their difference. You may use different items like clay, buttons, cotton, wool, etc.
2. Take gram seeds and boil few of them. Soak the dry gram seed and boiled gram seed in water. Note down your observation. Find out the reason behind it. Do you observe this in your surroundings, if yes explain with any three suitable examples?

**Social Science**

- Prepare a project/model on any one natural disaster under the following points:
  - (i) Introduction
  - (ii) Causes of the disaster
  - (iii) Illustrate the regions prone to the disaster in the world map.
  - (iv) Dos and don’ts before, during and after the disaster.
  - (v) Conclusion

**Note:** Follow the following instructions while preparing the project:

- The project/model prepared should be made from eco-friendly products without incurring too much expenditure.
  - The Project Report should be handwritten by the students themselves.
  - If possible, *different forms of art* may be integrated in the project work.
- Prepare a map of India showing States with Capitals, Tropic of Cancer, Standard Meridian.
  - Every village in India is surveyed once in ten years during the Census and some of details are presented in the following format. Fill up the following based on information on Palampur.
    - a. LOCATION:
    - b. TOTAL AREA OF THE VILLAGE:
    - c. LAND USE (in hectares):

Cultivated Land	
Irrigated	Unirrigated

d. FACILITIES:

Medical
Market
Electricity Supply
Communication
Nearest Town
Educational

### **Art & Craft**

- 1) Draw any two-pencil sketch of your choice and give light & shadow effect on them.
- 2) Draw two examples of each:
  - (a) One vanishing point perspective
  - (b) Two vanishing point perspective
  - (c) Three vanishing point perspective.
- 3) Make any nature scene or land scape. (Medium – poster colour, water colour, Or collage work.
- 4) 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**

Listen songs in different moods

Play your Instruments with full of zeal

Sing & learn any film song with Karaoke.

Practice Alankar 1-5 on daily basis from this link <https://youtu.be/JIFMN6E9DA>

Listen and riyaz of 'Sa' from this link <https://youtu.be/gbbFmxv4-7w>