

MORNING STAR SCHOOL ACADEMIC SESSION 2025-26 SUMMER HOLIDAY HOMEWORK <u>Class-X</u>

Dear Students,

Summer vacation is a timeful of full fun. But dear Children, there is a lot more to do to make your vacation more interesting and meaningful. We have planned some interesting activities.



LIFE SKILL ACTIVITIES

VACATIONS NOT ONLY GIVE YOU A CHANCE TO RELAX AND BOND WITH YOUR KIDS, BUT THEY ALSO PROVIDE AN OPPORTUNITY FOR YOUR CHILDREN TO LEARN VALUABLE LIFE SKILLS AND LESSONS THAT WILL SERVE THEM WELL FOR YEARS TO COME.

HERE ARE FEW SUGGESTED ACTIVITIES WHICH MAY BE ALREADY IN PRACTICE WITH MANY, HOWEVER WE COULD USE THIS TIME TO RE-EMPHASIZE THE VALUES AND SKILLS OF GREATER SIGNIFICANCE IN LIFE.

WEEK-1

BETTER SOCIAL BEHAVIOUR Right from wishing a pleasant morning, to sharing day to day stories, childhood stories can help them connect with you better.

WEEK-2

BAKE A SWEET TREAT TO ENJOY Baking requires students to pay attention to detail, work methodically and employ lots of patience in waiting for their baked goodies **etc.**

WEEK-3

PRACTICE GARDENING Gardening is a great life skill to nature from a young age. Gardening allows learners to become more responsible in caring for their plants, Gardening also exposes learners to a better Understanding of the natural world and all of its elements.

WEEK-4 VISIT A MUSEUM

Holiday time is a great time to visit a museum. Many museums offer unique exhibits and activities geared towards kids during the holidays. This is an excellent way for kids to learn about different cultures and traditions.

Dear Parents,

'Always speak in English with your family members and friends.'

Different types of languages are spoken by people from different regions, but the most important thing is that any language when spoken should be spoken correctly.

The two common languages that our children should be able to speak fluently are Hindi and English. Since English is a universal language spoken and understood by people all over the world, we want our children also to be proficient in speaking it and for this we need full support and cooperation. We would appreciate if you adhere

to the following points:

- 1. Speak with your child in English. Encourage reading habits.
- 2. Read out story-books and after finishing the story discuss it with your child.
- 3. Encourage Word Building and Picture Talk.

ENGLISH

- 1. Read any 5 Editorials and paste them in your files.
- 2. Paste any 10 important headlines from any English newspaper in your files.
- 3. What do you mean by Literary Devices ?
- Explain the following literary devices with at least 2 examples of each:
- Simile
- Metaphor
- Imagery
- Irony
- Hyperbole
- Personification
- Analogy
- Symbolism
- Paradox
- Onomatopoeia
- Juxtaposition
- 4. Write any 10 verb forms.
- 5. Revise the syllabus covered till date.
- Note: Holiday Home Work should be done in a file.
- Include the following:
- 1.Cover Page (which includes Title & Student Information)
- 2. Index
- 3. Bibliography
- 4. Acknowledgement

<u>HINDI</u>

1. कुछ लोग प्रतिदिन थोड़ी-थोड़ी बातें किसी स्थान पर लिख लेते हैं। जो भी वे सोचते है। या जो उनके साथ उस दिन हुआ या जो उन्होंने देखा, उसे ईमानदारी से लिख लेते हैं । इस डायरी लेखन कहते हैं।

आप भी अपने मन की बातों और विचारों को एक डायरी में लिखना प्रारंभ कीजिए।

*आप एक डायरी या लेखन पुस्तिका में भी लिख सकते हैं।

*आप प्रतिदिन, कुछ दिनों में एक बार या जब कुछ लिखने का मन करे तब लिख सकते हैं।

*शब्दों या वाक्य की कोई सीमा नहीं है आप चाहे तो कुछ वाक्य या दो पृष्ठ या जो मन में आए उसे उचित और शालीन शब्दों में लिख सकते हैं।

- २. दिए गए विषयों पर विज्ञापन तैयार कीजिए।
- १. डेरी मिल्क चॉकलेट
- २. ठंडा- ठंडा पर जल

अथवा

प्रदूषण किसे कहते हैं? यह कितने प्रकार के होते हैं?उनके विषय में जानकारी प्राप्त करके एक फाइल पर विभिन्न प्रदूषणों से संबंधित चित्र बनाकर या चिपकाकर उनके विषय में चार-चार लाइन लिखिए।

MATHEMATICS

- 1. For what value of k, (-4) is a zero of the polynomial $x^2 x (2k + 2)$?
- 2. For what value of p, (-4) is a zero of the polynomial $x^2 2x (7p + 3)$?
- 3. If 1 is a zero of the polynomial $p(x) = ax^2 3(a 1)x 1$, then find the value of a.

4. If (x + a) is a factor of $2x^2 + 2ax + 5x + 10$ find a.

5 Write the zeroes of the polynomial $x^2 + 2x + 1$.

6 Write the zeroes of the polynomial $x^2 - x - 6$.

7. Write a quadratic polynomial, the sum and product of whose zeroes are 3 and -2 respectively.

8. Write the number of zeroes of the polynomial y = f(x) whose graph is given in the figure.

Find the zeroes of the quadratic polynomial $6x^2 - 3 - 7x$ and verify the relationship between the zeroes and the coefficient of the polynomial.

9. Find the zeroes of the quadratic polynomial $5x^2 - 4 - 8x$ and verify the relationship between the zeroes and the coefficient of the polynomial.

10. Find the quadratic polynomial, the sum of whose zeroes is 8 and their product is 12. Hence, find the zeroes of the polynomial, If one zero of the polynomial $(a^2 - 9) x^2 + 13x + 6a$ is reciprocal of the other, find the value of 'a'.

11. If the product of zeroes of the polynomial $ax^2 - bx - 6$ is 4, find the value of 'a'.

12. Find all the zeros of the polynomial $x^4 + x^3 - 34x^2 - 4x + 120$, if two of its zeroes are 2 and – 2.

13. Find all the zeroes of the polynomial $2x^4 + 7x - 19x^2 - 14x + 30$, if two of its zeroes are

14. Find the quadratic polynomial whose zeroes are 1 and -3. Verify the relation between the coefficients and the zeroes of the polynomial.

15. Find the zeroes of the quadratic polynomial $4x^2 - 4x - 3$ and verify the relation between the zeroes and its coefficients.

16. Find all the zeroes of $x^4 - 3x^3 + 6x - 4$, if two of its zeroes are

17.. Find a quadratic polynomial whose zeroes are -4 and 3 and verify the relationship between the zeroes and the coefficients.

18. The quotient and remainder on dividing f(x) by g(x), where f(x) and g(x) = 2x + 1

19. If the polynomial $6x^4 + 8x^3 + 17x^2 + 21x + 7$ is divided by another polynomial $3x^2 + 4x + 1$ then the remainder comes out to be ax + b, find 'a' and 'b'

20. If the polynomial $x^4 + 2x^3 + 8x^2 + 12x + 18$ is divided by another polynomial $x^2 + 5$, the remainder comes out to be px + q. Find the value of p and q.

21. Find all the zeroes of the polynomial $2x^3 + x^2 - 6x - 3$, if two of its zeroes are –

22. If a and β are zeroes of the quadratic polynomial $x^2 - 6x + a$; find the value of 'a' if $3a + 2\beta = 20$.

SOCIAL SCIENCE

• Nationalism in India

Locate and Labeling Maps HISTORY

- List of Area I. Congress sessions: 1920 Calcutta 1920 Nagpur. 1927 Madras session, 2 Satyagraha movements: Kheda Champaran. Jallianwala Bagh Dandi march GEOGRAPHY Resources and Development Salal Bhakra Nangal Tehri Rana Pratap Sagar Sardar Sarovar Hirakund Nagarjuna Sagar Tungabhadra • Agriculture - Major areas of Rice and Wheat Largest/ Major producer states of Sugarcane, Tea, Coffee, Rubber, Cotton and Jute • Minerals and Energy Resources a. Iron Ore mines Mayurbhanj Durg Bailadila Bellary Kudremukh **b.** Coal Mines Raniganj Bokaro Talcher Nevveli c. Oil Fields Digboi Naharkatia Thermal Power Plant Namrup Singrauli Ramagundam

d. Nuclear Power Plant

Narora Kakrapara Tarapur Kalpakkam

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. Vijayanagar
- f. Salem

Lifelines of National Economy

- a. (Major sea ports)
 Kandla
 Mumbai
 Marmagao
 New Mangalore
 Kochi
 Tuticorin
 Chennai
 Vishakhapatnam
 Paradip
 Haldia
 b. (International Airports)
 Amritsar (Raja Sansi Sri Guru Ram Dass jee)
 Delhi (Indira Gandhi)
 Mumbai (Chhatrapati Shivaji)
- Chennai (Meenam Bakkam)
- Kolkata (Netaji Subhash Chandra Bose)
- Hyderabad (Rajiv Gandhi)

ECONOMICS

Category of Person	Developmental Goals / Aspirations
Landiess rural labourers	More days of work and better wages; local school is able to provide quality education for their children; there is no social discrimination and they too can become leaders in the village.
Prosperous farmers from Punjab	Assured a high family income through higher support prices to their crops and through hardworking and cheap labourers; they should be able to settle their children abroad.
Farmers who depend only on rain for growing crops	
A rural woman from a land owning family	
Urban unemployed youth	
A boy from a rich urban family	
A girl from a rich urban family	She gets as much freedom as her brother and is able to decide what she wants to do in life. She is able to pursue her studies abroad.
An adivasi from Narmada valley	

Q1 Complete the above table

Q2 Different persons can have different developmental goals explain.

Q3 What is per capita income?Write the formula to calculate

SCIENCE

PHYSICS

1.Draw image formation laws for Concave and Convex Spherical mirror in fair notebook. 2. Draw the well labelled Ray diagrams for Cocave mirror of the following in fair notebook. (THREE_TIMES)

I) Position of image.

II) Position of image.

III) Nature of Image.

IV) Size of Image

Draw the well labelled Ray diagrams for Convex mirror of the following in fair notebook. (THREE_TIMES)

I) Position of image.

II) Position of image.

- III) Nature of Image.
- IV) Size of Image

CHEMISTRY

Writing

Complete the notes of the Chapter 1 Chemical reactions and equations

I) Mind_Map

II) Important keywords

III) Diagram / Chart

IV) NCERT_Examples

V) Enlist five real life activities based on Chemical reactions and equations

Learning : Revise the topics

1) Chemical reactions

- 2) properties of chemical reactions
- 3) Types of chemical reactions

- 4) Skeletal and Balanced chemical equation
- 5) Hit and Trial mehod
- 6) State symbol
- 7) Types of chemical reactions

BIOLOGY

1. Complete short and long answer type questions of Topic 1 and Topic 2 from given notes in fair notebook .

- 2. Draw the well labeled diagrams of the following in fair notebook.
- I) Opening and closing of stomata.
- II) Alimentary Canal of human being.
- III) Respiratory system in human beings.

Activity :

Make a chart on Activity 5.1 and 5.2. Learning : Revise the Topic 1 and Topic 2 from the given notes.

COMPUTER

A. Write notes with diagram on following topic:- (ASSIGNMENT FILE) (minimum 2 Pages required for each topic)

- 1. Emerging technology
- 2. Programming with Python
- 3. Importance of Computer in space research

B. Write about Alan Turning, Father of Computer Science And Artificial Intellegence. (ASSIGNMENT FILE)

C. Write 10 HTML program with their output (ASSIGNMENT FILE)

PHYSICAL ACTIVITY TRAINER

- Draw a chart Self-Management Skill
- Draw a fixer or ten teams on knock out base

ACTIVITY RECOMMENDED DURING VACATION

- Meditate and do simple yoga exercises .
- ➡ Water plants and feed the birds.
- ➡ Join your grandparents and parents for their morning walk.
- ightarrow Help your mother in the kitchen .
- Don't watch too much of television .
- ightarrow keep your environment in surrounding clean .
- Plant trees and conserve your natural resources.
- Build and improve your vocabulary through crosswords, jumble words etc.
- Solve riddles and puzzles.
- Read story books and visit places.
- Improve your reading and writing skills by reading and writing.

Note:

- Summer breaks are from 1ST May to 25th June 2025.
- The school reopens on 26th June 2025

Have a great Summer Vacation!