



Bal Bharati
PUBLIC SCHOOL
Nabinagar, Aurangabad
Dist. A.P. No. - 440042



HOLIDAY HOMEWORK



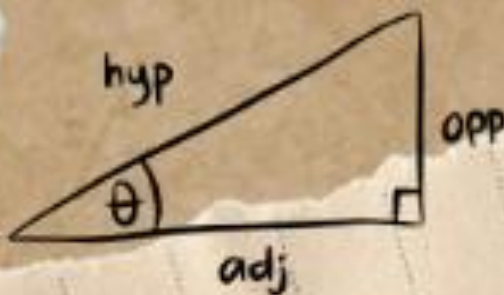
Name _____

Class _____

Roll no. _____



$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$



$$\sin(\theta) = \frac{\text{opp}}{\text{hyp}}$$





SUMMER VACATION HOLIDAY ASSIGNMENT

CLASS-IX

SESSION: 2023-24

SUBJECT : ENGLISH

1. Make a portfolio of Robert Frost /Isaac Asimov/ Mulk Raj Anand/ William Butler Yeats their life and achievements, and their five most beautiful poems. Add relevant pictures also.
2. Synonym tree. Make/Draw a large tree, affix synonym-containing words to the tree. 25 minimum words with four synonyms for each word are its fruits.
3. Make illustrative presentations on any book which you read. It can be through charts/ flashcards etc.. Pick up any character and describe summary as well.

Suggested Material:

The Alchemist by Paulo Coelho.

The Diary of A Young Girl By Anne Frank.

The Kite Runner by Khaled Hosseini.

The God of Small Things by Arundhati Roy.

To Kill A Mockingbird by Harper Lee.

Norwegian Wood by Haruki Murakami.

4. Fill in the blanks with the correct form of the verb.

- i. Each of the girls ____ her own dress. (has/have)
- ii. Five miles ____ long distance. (is/are)
- iii. Many a man ____ tried hard to climb the treacherous mountain range. (have/has)
- iv. The furniture of the house ____ quite impressive. (is/are)
- v. Few students ____ coming to the party. (is, are)
- vi. Uma, my childhood friend ____ leaving for Delhi next month. (is/are)
- vii. Most of my friends ____ government employees. (is/are)
- viii. The level of pain tolerance ____ from person to person. (vary/varies)
- ix. Either Tina or Rohit ____ telling lies. (is/are)
- x. A number of people ____ reported to have fallen sick after drinking the water from the tubewell. (was/were)
- xi. The government ____ criticised by the Supreme Court for their actions. (was/were)
- xii. No one ____ a greater collection of books than my friend Reeshav. (has / have)
- xiii. Somebody ____ waiting at the door for you. (is / are)
- xiv. Two ____ ago, here is the place where the accident took place. (year/years)
- xv. Fast food, like burgers and street food, ____ harmful to our health. (is/are)

5. Read the following sentences and change them into reported speech:

- i. My mom said, "Everything is going to be fine."
- ii. Luke said, "I will cook for you tomorrow."
- iii. Manisha said, "I think I will have a shot at it next year."
- iv. Soumia said, "I am wearing a black dress for Achu's reception."
- v. The manager said, "All the rooms have been allocated according to your choices."
- vi. My grandmother said, "I have some work to do."
- vii. Lakshmi said, "I am a tailor."
- viii. Madhav said, "The cricket team did their best."
- ix. Dhoni said, "Can you help me with the luggage?"
- x. My parents said, "We loved the passion fruit dessert."
- xi. Danny said, "I am starting work from tomorrow."
- xii. The police officer said, "We are investigating the matter."
- xiii. Emily said to Richard, "You are raising your voice."
- xiv. Josh said, "I love shrimp."
- xv. Naomi said, "Was Farsana present yesterday?"

SUBJECT : HINDI

1. शरद जोशी/विष्णु प्रभाकर माचवे की कोई एक कहानी पढ़ें एवं अपने पसंदीदा पात्र के बारे में लिखें।
2. भारत में अतिथिदेवो भव' की परंपरा रही है। परंतु अब इसमें बदलाव आने लगे हैं। ऐसा क्यों हो रहा है? कारण बताइए।
3. आजकल लोगों की संवेदना मरती जा रही है। दुर्घटनाग्रस्त व्यक्ति की सहायता करने की जगह लोग वीडियो बनाने लगते हैं। लोगों के व्यवहार में ऐसा अंतर क्यों आया है? इसके समाधान के लिए उपाय सुझाइए।
4. आजकल लोगों के आपसी संबंध बिगड़ते जा रहे हैं। रहीम ने इसके लिए क्या सुझाव दिए हैं? लिखिए।

- पाठ-‘तुम कब जाओगे अतिथि’ के अनुसार यदि आप लेखक की जगह होते तो क्या करते ? लिखिए ।
- किसी हिंदी अखबार से दस नए शब्द छाँटकर उनका वर्ण-विच्छेद कीजिए ।
- बचेंद्री पाल, अरुणिमा सिन्हा आदि अन्य महिला पर्वतारोहियों के बारे में जानकारी प्राप्त कीजिए तथा उनमें से किसी एक के बारे में संक्षेप में लिखिए ।
- कक्षा- पत्रिका के लिए कोई एक कहानी/कविता/चुटकुला/तथ्य-संग्रह लिखिए ।
- रहीम के दोहों में से किसी एक दोहे को स्पष्ट लिखावट में चार्ट-पेपर पर अर्थ सहित लिखिए ।
- परियोजना कार्य - ग्रीष्मावकाश के दौरान अजय देवगन अभिनीत फिल्म -‘अतिथि कब जाओगे’ देखिए तथा संक्षेप में अपने विचार लिखिए । जैसे – फिल्म कैसी लगी, फिल्म का विषय क्या है, गीत-संगीत कैसा है, अब कौन कौन-से बदलाव आए हैं आदि ।
- गर्मी की छुट्टियों के दौरान बिताए गए समय या अनुभवों को डायरी लेखन के माध्यम से प्रस्तुत करें ।

SUBJECT : SANSKRIT

- किंही पाँच सुभाषितानि को अर्थ सहित लिखिए ।
- विदुर नीति के किंही 5 श्लोको को अर्थ सहित लिखकर कण्ठस्थ कीजिए ।
- संस्कृत में 1 से 100 तक संख्या लिखकर याद कीजिए ।
- अस्मद् , युष्मद् , तत् तथा किम् शब्दरूप लिखकर उन्हें याद करें ।
- नम् तथा हस् धातुरूप पाँचों लकार में लिखकर याद कीजिए ।
- क्त्वा , ल्यप् तथा तुमुन् प्रत्यय के 8-8 उदाहरण लिखिए ।
- पंचतन्त्र की किसी कथा अपनी भाषा में 50 शब्दों में लिखिए ।
- दो मित्रों के बीच के संवाद को 80 शब्दों में संस्कृत भाषा में लिखिए ।
- पर्यावरण अथवा किसी संस्कृत ग्रन्थ के चित्र को बनाकर उसका संस्कृत में चित्रवर्णन कीजिए ।
- स्वर संधि के संस्कृत सूत्रों से 5 बुकमार्क बनाइए ।

SUBJECT : MATHEMATICS

- If $4^n + 4^n + 4^n + 4^n = 2^{2020}$ then n is equal to
(A).2000 (B). 2018 (C). 1009 (D).1010
- If $10^x = 64$, the value of $10^{\frac{x}{2}+1}$ is
(A) 60 (B) 60 (C) 80 (D) 8
- If $\sqrt{2} = 1.4142$, then evaluate $\frac{\sqrt{2}-1}{\sqrt{2}+1}$
- Simplify: $\sqrt{72} - \sqrt{50} + \sqrt{32} - \sqrt{18}$.
- Express $0.\overline{23} + 0.\overline{23}$ in decimal form.
- Show that $\frac{1}{\sqrt{9}-\sqrt{8}} - \frac{1}{\sqrt{8}-\sqrt{7}} + \frac{1}{\sqrt{7}-\sqrt{6}} - \frac{1}{\sqrt{6}-\sqrt{5}} + \frac{1}{\sqrt{5}-\sqrt{4}} = 5$
- If $\frac{\sqrt{2}+\sqrt{3}}{3\sqrt{2}-2\sqrt{3}} = a - b\sqrt{6}$ then find the values of a and b
- Solve for x : $0.125 \times 4^{2x-8} = \left(\frac{0.25}{\sqrt{2}}\right)^{-x}$.
- If $x = 7 - 4\sqrt{3}$ and $y = 7 + 4\sqrt{3}$, find the value of $x^2 - 3xy + y^2$.
- If $x = \frac{2}{3+\sqrt{7}}$, find the value of $(x-3)^2$.

Activity

1. SUSTAINABILITY COUNTS! ENERGY CHALLENGE

What to do: Comparative study of consecutive electric bills

How to do: 1. Examine your electricity bill of pre summer break.

2. List the various electrical appliances used in your home.

3. Find out the power consumption, duration for the device in use. Do estimate calculation of your bill as per power consumption.

4. Make an energy reduction plan and determine how far you could implement it.
5. Re-examine your electricity bill of post summer break with all calculations.
6. Paste both bills with calculations. Write your reduction plan and change in the bill

Where to do: On A-4 size sheet

Parameters: (i) Content (ii) Presentation

2. MATHEMATICS ARTICLES

What to do: Read and record an article related to mathematics and write a report of 100 words.

How to do: Take help of the below links or magazines and choose a suitable article.

- a) <https://www.mathgoodies.com>
- b) <https://azimpremijfoundation.com> (At Right Angles Magazine)
- c) <https://www.tandfonline.com>
- d) Mathematics Today
- e) Mathematics Spectrum

Where to do: On A-4 size sheet Parameters: (i) Content (ii) Presentation

SUBJECT : SCIENCE

1. What is matter? How is it different from non-matter?
2. What are the different states of matter? Describe each state and give examples.
3. What is the kinetic theory of matter? How does it explain the properties of solids, liquids and gases?
4. What is evaporation? How does it occur? Give examples of substances that evaporate easily and those that do not.
5. What is the difference between physical and chemical changes? Give examples of each.
6. What is a mixture? How can you separate the components of a mixture? Give examples of different types of mixtures.
7. Explain the concept of solubility and the factors that affect it.
8. How does fractional distillation work, and what are its applications in industry?
9. What is diffusion? How is it different from osmosis?
10. Explain the process of osmosis with the help of an example.

PROJECT/ACTIVITY WORK

1. Investigating the properties of solids, liquids and gases - Students should observe the properties of different substances and classify them as solids, liquids or gases based on their observations.
2. Evaporation Experiment - Students can set up an experiment to investigate the factors that affect the rate of evaporation of liquids. They can test different liquids under different conditions to observe the rate of evaporation.
3. To investigate the effect of isotonic, hypotonic, and hypertonic solutions on the movement of water molecules in potato slices. Prepare a report on this. (for further information please go through NCERT book)

SUBJECT : SOCIAL SCIENCE

Section: A

Enrichment Activity/Project:

Objectives	The main objectives of giving project work on Disaster Management to the students are to: • create awareness in them about different disasters, their consequences and management • prepare them in advance to face such situations • ensure their participation in disaster mitigation plans • enable them to create awareness and preparedness among the community. • The project work should also help in enhancing the Life Skills of the students. • If possible, various forms of art may be integrated in the project work.
Task	Enrichment Activity/Project guidelines- <ol style="list-style-type: none"> 1. It is a mandatory for all. 2. Each student has to take any one project (allotted as per your roll nos. out of the listed projects topics. 3. Project can be prepared on MSWORD / POWERPOINT/or can be HANDWRITTEN. 4. Number of pages expected in the project: <ul style="list-style-type: none"> ➤ MS Word-10 pages ➤ Handwritten-10 pages ➤ PowerPoint – 15 slides 5. Order of presentation of project report: <ul style="list-style-type: none"> ➤ Cover page (Topic, Name, Class, Section and Roll No.) ➤ Index ➤ Acknowledgement ➤ Content. ➤ Conclusion

	<p>➤ Bibliography</p> <p>➤ Glossary</p> <p>6. Support your project with suitably labelled pictures, maps, graphs, interesting facts, interviews conducted, questionnaire etc</p> <p>NOTE: Cite & give credit to the references used by you at every place including pictures and data.</p> <p>7. Projects topics are:</p> <table><tr><th>Name of the topic</th><th>Allotted to Roll nos</th></tr><tr><td>Earthquake</td><td>1 & 2</td></tr><tr><td>Cyclone</td><td>3 & 4</td></tr><tr><td>Road, Rail & Air traffic Accidents</td><td>5 & 6</td></tr><tr><td>Industrial & Chemical Accidents</td><td>7 to 9</td></tr></table>		Name of the topic	Allotted to Roll nos	Earthquake	1 & 2	Cyclone	3 & 4	Road, Rail & Air traffic Accidents	5 & 6	Industrial & Chemical Accidents	7 to 9
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Date and Mode of submission:	To be submitted once the school commences after the vacation.											
Rubrics for Enrichment Activity/Project	Content accuracy, originality and collaborative skills	2										
	Competencies exhibited and Presentation	2										
	Viva	1										

Section: B

Objective type questions:

1. "The inequality that existed in the French Society in the Old Regime became the cause of French Revolution". Justify the statement by giving three suitable examples.
2. What was the significance of 'The Tennis Court Oath' in the French Revolution?
3. How many crops are grown by the farmers in Palampur? How are they able to grow these different crops in a year?
4. How do large farmers utilise surplus farm products to arrange for the capital needed for farming?
5. Why did the Institutional Revolutionary Party in Mexico never lose any election till 2000?
6. "Democracy provides a method to deal with differences and conflicts". Discuss.
7. "India's land routes have been important since ancient times." Support these statements with valid points.
8. What was the role of philosophers and thinkers in the French Revolution? Explain by giving three examples.
9. 'Social disparity was one of the major causes of the French Revolution.' Justify by giving examples.
10. Farmers of which states were the first to try out the modern farming method in India? How did they do it?

SUBJECT : COMPUTER

Q1. Write the answer of the following questions.

- I. Write the full form of the following terms:-
A) WWW b). WAN c)TCP/IP d)HTTPS e)POP3
- II. Write one advantage and one limitation of e-mail over traditional mail.
- III. Name the two main parts of the e-mail address with the help of one example.
- IV. Give any two websites used to send e-mail.
- V. Explain briefly video conferencing.
- VI. Distinguish between downloading and uploading files in details.
- VII. What do you understand by the privacy of data in the in the social networking website?
- VIII. What do you understand by IPO cycle?
- IX. Write a short note on LIFI.
- X. What is personal information, and why should you be cautious when sharing it online?

ACTIVITY/PROJECT WORK: -

Tech content creator- "Tech magazine".

Criteria:

- a) Cover page: Create an eye-catching cover design that reflects the theme of the magazine.
- b) Table of Contents: List the articles and sections included in the magazine.
- c) Feature articles: In-depth articles that cover significant technology trends or advancements.
- d) Interviews: interviews with experts or professionals in the technology field.
- e) Product reviews: Review and evaluate popular tech products or gadgets.
- f) How-to guides: Provide step-by-step instructions for using specific software or technology.
- g) Infographics: Create visual representations of data or concepts related to technology.
- h) Tech news: Include recent news and updates from the tech industry.
- i) Opinion pieces: Allow students to express their own thoughts and perspectives on technology related topics.
- j) Fun facts or trivia: Share interesting facts or trivia related to technology.

* Submit the hardcopy when school will reopen and mail the soft copy at this email: testcodestart@gmail.com

SUBJECT : ART AND CRAFT

Make a sculpture with clay or wheat flour dough.