

ADARSH PUBLIC SCHOOL

C-BLOCK, VIKAS PURI, NEW DELHI

HOLIDAYS' HOMEWORK

SESSION : 2021-22

CLASS : IX

GENERAL INSTRUCTIONS

- All the questions are compulsory.
- The holidays' homework must be done in a very neat and presentable manner.
- The child will be assessed on the basis of presentation, neatness, completion of all the given questions and timely submission.
- Revise all the syllabus covered in the class.
- The homework of all the subjects is to be done in respective notebooks or as specified.

ENGLISH

1. Write a story using the following hints:
 - a. Imagine yourself as Rahul and make a horror story using the given beginning:
A man was returning home from work through the jungle and he heard...
 - b. Rohan was returning from school. He was very happy and wanted to share his happiness with his family:
His joy and happiness knew no bounds but suddenly all his happiness vanished when...
2. You read in Tommy's diary how summer break would be given in the schools of the past. Imagine yourself to be Margie and write in detail about the homework they used to be given, the duration of holidays and what fun children used to have in the holidays. Write the diary in 100-120 words.
3. Write an informal letter on the following topics: (Word limit: 120-150 words)
 - a. Write a letter to your friend congratulating him/her on his/her success in class XII Board Exam.
 - b. Write a letter to your friend appreciating his book that he wrote in Bangalore while pursuing his writing career. You are Robert/Robina.
4. 'The Schools of the Future will have no books and No Teachers!'. Express your views on this topic in 80 - 100 words.
5. What is the theme of the poem '**The Road Not Taken**'? What is the message in the poem for the readers?
6. Do you think we can always make right decisions when life gives us two options? What helps us in making a decision? Write your answer in detail taking hints from the poem **The Road Not Taken**. (100-120 words)
7. Reference to Context :

Then took the other, as just as fair,
And having perhaps the better claim
Because it was grassy and wanted wear;
Though as for that , the passing there
Had worn them really about the same,

 - a. Name the poem and the poet.
 - b. What is the state of mind of the poet in these lines?
 - c. Mention the poetic devices used in these lines.

8. Fill in the gaps using the options given in brackets:

Reading is one of the best hobbiesa.... (this / that / who / it) you can adopt.
.....b.... (It / They / Them / Its) not only helps you to pass your leisure time usefullyc.....
(and / so / hence / but) also keeps you well informed. Besides that, it buildsd..... (yours
/ your's / your /its) vocabulary and helps you toe..... (improvement / improving
/improves / improve) your expression. If you can't decidef.....(whose / which /
different / various) books to read, you should consult your parents or librarian.

9. Rearrange following words to make meaningful sentences.

- Reshma / year. / to / to / the / come / back / hopes / Disneyworld / for /next / a / holiday
- want / Do / me / see / you / you / at / to / the / airport? / off
- you/ betray / once / it's / his / fault / someone / fault / betrays / it's / he if / twice if /
your / you
- baby / gave / apple / her / the / mother / a / red
- that / lived in / hills / I dreamt / I / Mallabar
- Mohit / and / skating / Saturday / went / on / Preeti
- way / good / eating / cream / ice / to / off / is / a / cool

10. Find out 20 new words from any newspaper and write down their meanings. Also, make one sentence from each word.

11. Complete Unit -1 and Unit- 2 of the workbook **Words and Expressions**.

हिन्दी

1. पत्र लेखन

क. कोरोना महामारी पर विजय पाने के लिए अपनाए जाने वाले नियमों पर प्रकाश डालते हुए पिता का पुत्र को पत्र लिखिए ।

ख. नारी सशक्तिकरण का महत्व बताते हुए माता का पुत्री के लिए पत्र लिखिए ।

2. संवाद लेखन

क. रोगी व डाक्टर के मध्य संवाद लिखिए ।

ख. योगाभ्यास क्यों महत्वपूर्ण है । विषय पर अध्यापक व शिष्य के मध्य संवाद लिखिए ।

3. नारा लेखन

क. ' वृक्ष प्राणरक्षक यंत्र ' विषय पर पाँच नारे (Slogan) चित्र सहित लिखिए ।

ख. लड़कियाँ देश का अभिमान है । विषय पर पाँच नारे लिखिए ।

4. बैंक की ओर से आपके पिता के लिए क्रेडिट कार्ड के भुगतान को समय पर करने के लिए फ़ोन आया है और आपको विद्यालय समय पर पहुँचना है। आप पिता के आने तक नहीं रुक पाएँगे। अतः आप पिता को संदेश के माध्यम से सूचित करें।
5. निम्नलिखित विषयों पर अनुच्छेद लिखिए।
- क. प्रकृति स्वनिर्माण करती है।
- ख. जीवन संघर्ष है, स्वप्न नहीं
- ग. लाँकडाउन, कोरोना से बचाव हेतु कितना सार्थक
- घ. भारत के किसानों की समस्याएँ
6. पाठ 'गिल्लू' को पढ़िए व उससे आपने क्या सीखा, इसे एक लेख के रूप में लिखिए।
7. पाठ 'दुख का अधिकार' के आधार पर बताइए कि सूतक क्या होता है और इस सोच का वर्तमान में क्या औचित्य है।
8. अपनी पसंद के किसी भी राज्य के चार लोकगीत व दो लोककलाकारों के संबंध में जानकारी को एक पत्रिका के रूप में तैयार कीजिए।
9. रैदास के पदों की भाषा शैली का परिचय दीजिए।
10. दस ऐसे अनुस्वार युक्त शब्द व बिना अनुस्वार वाले शब्द लिखिए जहाँ अनुस्वार न लगने से शब्द का अर्थ बदल जाता है।
जैसे - गोंद / गोद
11. **आर्ट इंटेग्रेशन एक्टिविटी**
सिक्किम के जनजीवन, रहन-सहन, वनस्पति, वेशभूषा व पर्यटक स्थल के आधार पर एक पत्रिका बनाइए। (कार्यसीमा - पांच से छः पेज)

SCIENCE

1. Answer the following questions:

- a. Substance 'A' has high compressibility and can be easily liquefied. It can take up the shape of any container. Predict the nature of the substance. Enlist four properties of this state of matter.
- b. Classify the following into osmosis/diffusion:
 - Swelling up of a raisin on keeping in water.
 - Spreading of virus on sneezing.
 - Shrinking of grapes kept in thick sugar syrup.
 - Spreading of smell of cake being baked throughout the house.
 - Aquatic animals using oxygen dissolved in water during respiration.
 - You want to wear your favourite shirt to a party, but the problem is that it is still wet after a wash. What steps would you take to dry it faster?
- c. Comment on the following statements:
 - Evaporation causes cooling.
 - Sponge though compressible is a solid.
 - Naphthalene balls disappear with time without leaving any solid.
- d. Why do we see water droplets on the outer surface of a glass containing ice cold water?
- e. Define evaporation and explain any three factors affecting its rate.
- f. Convert the following into Celsius-
 - i. 373K
 - ii. 393K
 - iii. 400K
 - iv. 470K
- g. What is the common name of solid carbon dioxide? What is its use?
- h. Account for the following:
 - i. The temperature of water remains constant during boiling.
 - ii. Evaporation is a surface phenomenon.
 - iii. The space between the constituent particles is maximum in gases.

2. Read chapter Fundamental Unit of Life and prepare a Power Point Presentation on the topic **Cell -Structural and Functional unit of life.**

3. Art Integration Project

Make a project report on the cuisines of Sikkim. Find out the crops/food resources used in the state. Relate it with agricultural practices used in the state. Use supporting diagrams to show the practices and mind maps to present the data.

NOTE : Project includes-

- Index
- Introduction
- Acknowledgement
- Content
- References
- Bibliography

Link for overview of the state: <https://www.youtube.com/watch?v=ydepwBIXVNU>

4. Refer to the virtual activity as shown in the following link

<https://www.youtube.com/watch?v=NnidOkBO9zw>

Answer the following questions:

- a. What is latent heat of fusion?
- b. What is latent heat of vaporization?
- c. The temperature of water remains constant during boiling. Justify the statement.
- d. Why is bulb of thermometer kept above the surface of water while determining the boiling point of water?

SOCIAL SCIENCE

1) Answer the following questions:

- a) How did the spread of electricity help farmers of Palampur?
- b) What do the medium and large farmers do with the surplus from farm production?
- c) Name the kharif and rabi crops grown in Palampur?
- d) 'Modern farming methods require more inputs which are manufactured in industry'. Do you agree?
- e) How is land distributed amongst the farmers of Palampur? Explain.
- e) Is it true that foodgrains output in India has increased significantly because of larger area under cultivation? Explain.
- f) Green Revolution is associated with loss of soil fertility. In the light of the statement, mention five problems caused by modern farming.
- g) India's land routes have been important since ancient times. Explain.
- h) Name the countries which share borders with India.
- i) Which island group lies to the south-east and south-west of the Indian mainland?
- j) Name the states through which Tropic of Cancer passes in India.
- k) Why 82 degrees 30 minutes has been selected as the Standard Meridian of India?
- l) Which commodities were exported from India?
- m) Why the difference between the duration of is day and night hardly felt at Kanyakumari but not so in Kashmir?
- n) What is the difference between the latitudinal and longitudinal extent of India?

2) Map Work:

- a) On the physical map of India locate the Latitude, Longitude and Standard Meridian.
- b) On the political map of India mark the States and Union Territories with their Capitals.

3) Refer to the link and make E-Project on Disaster Management either Man made/ Natural by covering following points:

<https://youtu.be/5hWJSRA4gaM>

- a) Meaning of disaster
- b) Causes of disaster
- c) Detailed information of any disaster along with maps, diagrams and pictures
- d) Mitigation steps: before, during and after disaster
- e) Conclusion

4) Art Integrated Project (Sikkim):

Use 20 coloured A4 Size sheets

- a) Write introduction that should include Location, Climate, Population, Languages spoken.
- b) Make a creative and an informative project.

5) Activity Based Question:

a) Read the given passage and answer the following questions that follow:

The story of Palampur, an imaginary village will take us through the different types of production activities in the village. In village across India, farming is the main production activity. The other production activities, referred to as non-farm activities include small manufacturing, transport, shop-keeping, etc.

- i) _____ is the main production activity in village Palampur.
- ii) What non-farm activities are carried out in Palampur?
- iii) What are the various requirements for production of goods and services?

6) Refer to this link and revise chapter:

<https://youtu.be/m3SJwqf709w>

MATHEMATICS

1. Simplify :

$$4(5 + 9\sqrt{2})(3 - \sqrt{7})$$

2. Insert a rational and an irrational number between 3 and 4.

3. Give an example for each. If two irrational numbers whose

- i. Difference is a rational number
- ii. Difference is an irrational number
- iii. Sum is a rational number
- iv. Sum is an irrational number

4. Which of the following rational numbers have the terminating decimal representation?

- i. $\frac{3}{5}$
- ii. $\frac{7}{20}$

5. Express 5.347474747... in the form of $\frac{p}{q}$, where p and q are integers and $q \neq 0$.

6. Locate $\sqrt{3}$ and $\sqrt{10}$ on the number line.

7. Evaluate : $\frac{\sqrt{5}-\sqrt{2}}{\sqrt{5}+\sqrt{2}}$ given that $\sqrt{10} = 3.162$

8. Simplify : $\frac{1}{2+\sqrt{3}} + \frac{2}{\sqrt{5}-\sqrt{3}} + \frac{1}{2-\sqrt{5}}$

9. Simplify: $3\sqrt{45} - \sqrt{125} + \sqrt{200} - \sqrt{50}$

10. In the following equations, examine whether x, y and z represents rational or irrational number:

- i) $x^2 = 27$
- ii) $y^2 = 25$
- iii) $z^2 = 0.16$

11. If $x = 2 + \sqrt{3}$, find the value of $x^2 + \frac{1}{x^2}$.

12. Express 1.419419419...in the form of p/q, where p and q are integers and $q \neq 0$.

13. If $\frac{3+\sqrt{8}}{3-\sqrt{8}} + \frac{3-\sqrt{8}}{3+\sqrt{8}} = a+b\sqrt{8}$, find the value of a and b.

14. If $x = \frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}$ and $y = \frac{\sqrt{3}-\sqrt{2}}{\sqrt{3}+\sqrt{2}}$, then find the value of $x^2 + y^2$.

15. Simplify:

i. $(81/16)^{-3/4} \times ((25/4)^{-1/2} \div (5/2)^{-3})$

ii. $(8)^{2/3} - \sqrt{9} \times 10^0 + (1/144)^{-1/2}$

16. Can we insert 100 rational numbers between 2 and 7? If yes, why?

17. State four value of n for which \sqrt{n} is a rational number.

18. Justify 3.020020002 is a rational number.

19. Factorize using middle term splitting :

i) $x^2+ 10x + 24$

ii) $x^2+ 5x + 6$

iii) $x^2- 22x + 117$

iv) $x^2-11x - 42$

v) $x^2- 12x -45$

20. Given below is the data showing number of students of a school using different modes of travel to school.

| Mode | School Bus | Walking | Bicycle | Other Vehicles |
|--------------|------------|---------|---------|----------------|
| No. of Boys | 100 | 160 | 240 | 40 |
| No. of Girls | 180 | 60 | 120 | 20 |

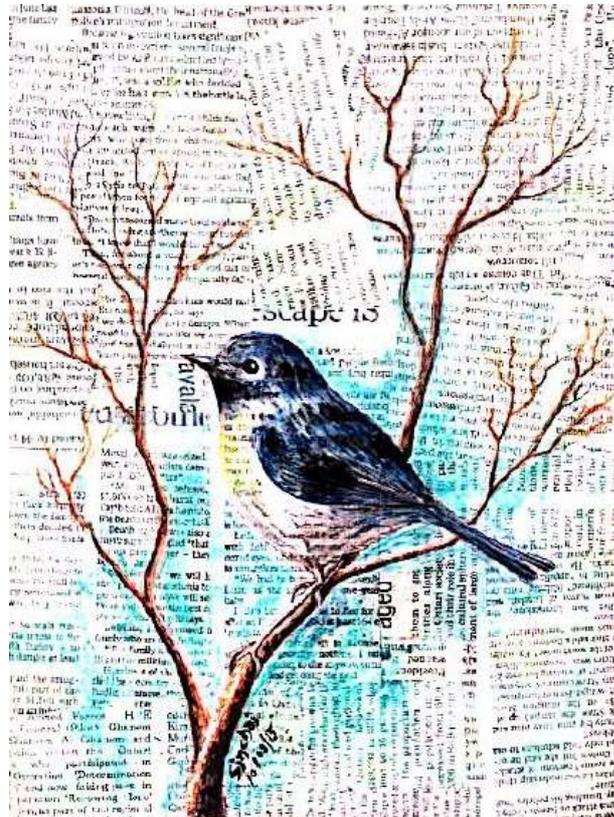
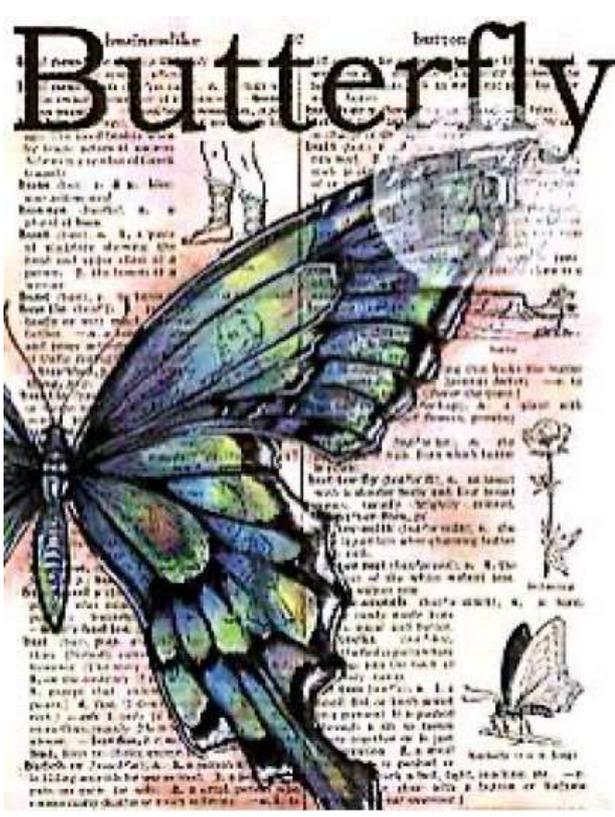
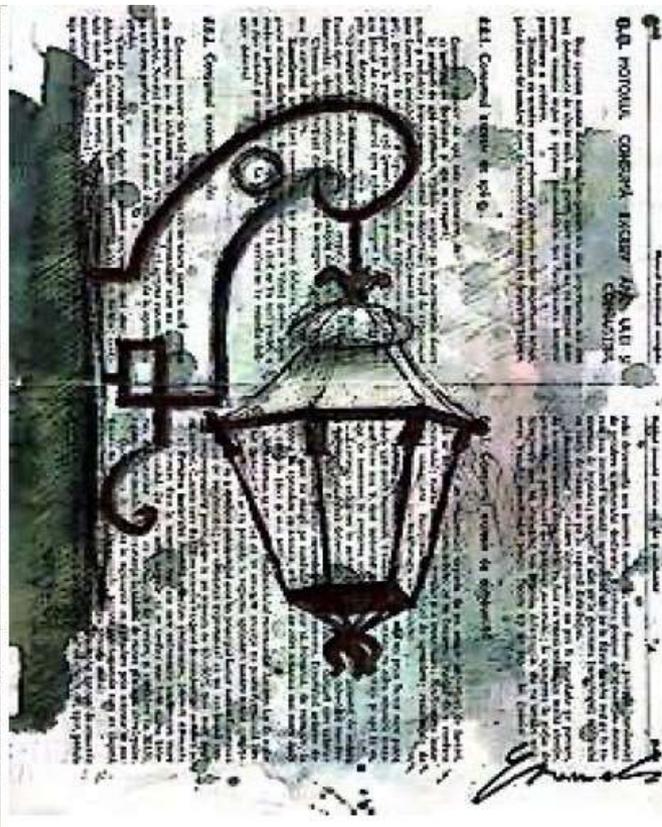
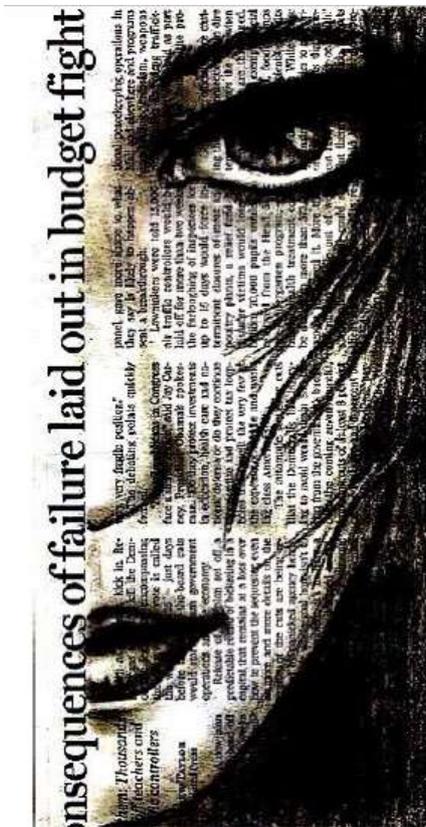
Represent the above information graphically and depict the same using different art forms such as Zentangle , Madhubani, Warli, Mandala and Doodle (different art form for each mode of travel).

21. Activity :

Construct a 'Square Root Spiral' using the link given below : <https://youtu.be/66zjfRcHp9A>

ART EDUCATION

Painting on Newspaper pages: Take old newspaper pages and draw a picture of your choice. Colour the picture using any medium.



- *Newspaper Craft: Create a beautiful craftwork with the help of old newspapers or magazines.*



Students are requested to complete their Art Integrated Activity. Sikkim tribal / cultural mask with the help of colorful papers. Complete the mask with A4 sized pastel sheet and colourful origami papers / glazed papers or any colour paper of your choice.

WORK EDUCATION

1. Make a power point presentation (15 slides) on ‘The Global Impact of Coronavirus on Education’.
2. All the students are required to make a beautiful **Portfolio** file which includes your personal details, achievements and creativity.