



Kulachi Hansraj Model School

Holidays Homework, Class VIII

Session: 2019-20



‘Holiday Homework’ is an attempt to channelize the creative energy of the children. Doing it in the right spirit with enthusiasm will make it a great learning experience. Make sure that your work is neat, presentable and original. Adhere to the guidelines. Enjoy doing all the tasks !

THINGS TO REMEMBER:

- Always start your day with prayer.
- Wake up on time and go to a park. Play and observe the beauty of nature.
- Help your parents at home and spend time with family.
- Read storybooks, newspaper and children’s magazine.
- Use your time constructively and pursue your hobbies in leisure time.
- Manage your work properly. Make a time-table of the daily activities and follow the same.
- Revise all the work that has been done in class.
- Finish your holidays homework well in advance.
- Travel and explore places as it widens the horizons of your mind.
- Try to converse in English with your parents and everyone else because the best way to learn a language is to use it.

| Subject | Task | | | | | | | | |
|---------------------------|---|---------|--------------------|---------|-------------|-------|--|--|--|
| <p>Mathematics</p> | <p>Task 1: Project (10 marks) 1. What is the difference between a prism and a pyramid? Complete the following table:</p> <table border="1"> <thead> <tr> <th>Term</th> <th>Meaning/Definition</th> <th>Example</th> <th>Non example</th> </tr> </thead> <tbody> <tr> <td>Prism</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | Term | Meaning/Definition | Example | Non example | Prism | | | |
| Term | Meaning/Definition | Example | Non example | | | | | | |
| Prism | | | | | | | | | |

| | | | |
|---------|--|--|--|
| Pyramid | | | |
|---------|--|--|--|

2. Collect 5 three dimensional objects which are not in use e.g. empty shampoo bottle, empty box etc. Observe its shape. Complete the following table.

| Object | Shape | No. of vertices= V | No. of faces= F | No. of edges=E | V+F-E |
|--------|-------|--------------------|-----------------|----------------|-------|
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Bring the objects with you for submission.

3. Create the following three dimensional shapes using paper nets or plastic straws.

- Triangular prism ,Cube or cuboid ,Square pyramid,Pentagonal prism and Triangular pyramid

Hence verify the Euler's formula by completing the entries in following table.

| Name | Number Of faces | Number of vertices | Number of edges | F+V | E+2 |
|--------------------|-----------------|--------------------|-----------------|-----|-----|
| Triangular prism | | | | | |
| Cube or cuboid | | | | | |
| Square pyramid | | | | | |
| Pentagonal prism | | | | | |
| Triangular pyramid | | | | | |

Euler's formula: $F+V=E+2$

Use the A4 size sheet for above table.

(WEBLINKS)

<https://www.youtube.com/watch?v=MUZes6B537c> ,

<https://www.youtube.com/watch?v=-0bbAfOuh-M>

(The above links help you to understand how to make the above models and for other models, videos are available on youtube.)

Task 2: Assignments

Do the assignments of chapter Squares and Square Roots ,Cubes and Cube Roots and Mensuration from Academic Support and the attached worksheet below in assignment register as Holidays Homework. (10 marks)

Mathematics Assignment based on Chapter 1 ,2 and 14

Chapter 1 (Square and square roots)

Q1. Find the square roots of following :

- (a) 655.36 (b)7903.21 (c) 25.6036 (d)147.1369
(e)0.00015376

Q2. Find the least number which must be subtracted from 8105 to make it a perfect square.

Q3. Find the least number which should be multiplied to 3645 to obtain a perfect square.

Q4. Find the least number which must be added to 306455 to obtain a perfect square.

Q5. Find the smallest number by which 1152 must be divided so that it becomes a perfect square.

Q6. Find the least number of four digits (4 digits) which is a perfect square. Also find the square root of the number so obtained.

Q7. Find the greatest number of five digits (5 digits) which is a perfect square. Also find the square root of the number so obtained.

Q8. Evaluate $\sqrt{3}$ up to two places of decimal.

Q9. Evaluate $\sqrt{2.8}$ correct up to two places of decimal.

Q10. Simplify $\sqrt{10 + \sqrt{2916}}$.

Q11. Simplify : $\frac{\sqrt{59.29} - \sqrt{5.29}}{\sqrt{59.29} + \sqrt{5.29}}$

Chapter 2 (Cubes and Cube Roots)

Q1.The length of a side of cubical box is 12 cm . Find its volume .

Q2. Are the following numbers are perfect cubes ?If not, Find the smallest number which should be multiplied to get a perfect cube.

a) 3645

b)1296

Q3. Are the following numbers are perfect cubes ?If not, Find the smallest number which should be Divided to get a perfect cube.

a) 29160

b) 33275

Q4.Find the cube root of the following

a) $125\sqrt[3]{-3375}$

b) $45\sqrt[3]{75}$

c) $-140\sqrt[3]{2450}$

Q5. Find the cube root by Estimation method:

a) 12167

b) 50653

c) 9261

Chapter 14 (Mensuration)

Q1. How many soap cakes can be placed in a box of sizes $56\text{cm} \times 0.4\text{m} \times 0.25\text{m}$, if the size of a cake is $7\text{cm} \times 5\text{cm} \times 2.5\text{cm}$.

Q2. *The area of a trapezium is 1586 cm^2 and the distance between its parallel sides is 26 cm . If one of the parallel sides is 84 cm , find the other.*

Q3 *In a temple there are 25 cylindrical pillars .The radius of each pillar is 28 cm and height 4m . Find the total cost of painting the curved surface area of pillars at the rate of $\text{₹}8$ per m^2 .*

Q4. *The area of a trapezium is 180 cm^2 and its height is 9 cm . If one of the parallel sides is longer than the other by 6 cm , find the two parallel sides.*

Q5. *The parallel sides of a trapezium are 20 cm and 10 cm . Its nonparallel sides are both equal, each being 13 cm . Find the area of the trapezium.*

Q6.*A room have a door of dimension $2.5\text{m} \times 1\text{m}$ and two windows of dimension of $1\text{m} \times 0.5\text{m}$. If the dimension of the room are $6\text{m} \times 5\text{m} \times 10\text{m}$, find the total cost of white washing the four walls and ceiling at the rate of $\text{₹} 102$ per m^2 .*

Q7. *Five cubes of side 3 cm are joined together to form a cuboid . Find the surface area of the generated cuboid.*

Q8. The ratio of the curved surface area and the total surface area of a right circular cylinder is 5:7, find the ratio between the height and their radius.

Q9. A rectangular sheet of paper with dimension 154cm by 10 cm is folded along its length. Find the Volume of the Hollow cylinder so generated.

Q10. How many cubes of side 30 cm can be cut out from a solid cuboid whose length is 3 m, breadth is 1.5m and height is 60 cm?

Answers:

(Chapter 1)

- 1). a)25.6 b)88.9 c)5.06 d)12.13 e) 0.0124 2). 5 3). 5
 4). 461 5). 2 6). 1024, 32 7). 99856, 316 8). 1.73 9). 1.67
 10). 8 11). 0.96

(Chapter 2)

- 1). 1728 cm³ 2). a) 25 b)36 3). a) 5 b)25 4). a)-75 b)15 c)-70
 5). a)23 b)37 c)21

(Chapter 14)

1. 640 2. 38 cm 3. 1408 4. 23 cm, 17 cm 5. 180 cm²
 6. 25143 7. 198 8. 5:2 9. 18865 10. 100

Parameters for assessment

| | |
|------------------------------------|---------|
| Completeness (for Assignment) | 4 marks |
| Correctness (for Assignment) | 4 marks |
| Timely submission (for Assignment) | 2 marks |
| Conceptual knowledge (for Project) | 4 marks |
| Creativity (for Project) | 3 marks |
| Completion on time (for project) | 3 marks |

Do assignments from ASM for chapter 1, 2, and 14.

English

a) ISA COLLABORATIVE PROJECT: Using A4 size sheets, write an article in about 200-250 words on the topic **“Rivers: The Nectar of Life” (Save water. Save future)**. Keep in mind the following points:

- Comparative study about rivers Amazon, Thames and Ganges.
- How they nourish barren lands.
- Source of sustenance to flora and fauna of South America (Amazon), UK (Thames) and India (Ganges).

The project carries **ten marks**. Keep in mind the following **rubrics**:

- ❖ Format (Heading and Writer's name): 1 Mark
- ❖ Content: 4 Marks
- ❖ Expression:
Grammatical accuracy, appropriate words and spellings: 2.5 Marks
Coherence and relevance of ideas and style: 2.5 Marks

b) INTEGRATED GRAMMAR WORKSHEET

(10 Marks, to be attempted in English register)

Ques 1. In the passage given below one word has been omitted from each line. Write the missing word and the word that comes before and the word that comes. The first one has been done for you.

(3 Marks)

| | Before | Missing | After |
|---|---------------|----------------|--------------|
| Walking very beneficial to us. | walking | is | very |
| We should get up early the morning (a) _____ | _____ | _____ | |
| and go for a walk. Those are (b) _____ | _____ | _____ | |
| used morning walks, will find it (c) _____ | _____ | _____ | |
| impossible to remain bed in the (d) _____ | _____ | _____ | |
| morning. For them it not so (e) _____ | _____ | _____ | |
| much an exercise but pleasure. (f) _____ | _____ | _____ | |

Ques 2. The following passage has not been edited. There is an error in each line. Write the incorrect word and the correction. (4 Marks)

Correct Incorrect

More of the fun and excitement in our life comes (a) _____

 from the use for our senses. Senses open up a (b) _____

 world which and full of sights, sounds, smells, (c) _____

 tastes and things to touch. The sharp your senses and (d) _____

 the more you use it, more enjoyable each (e) _____

 of these world becomes for you. (f) _____

 For instant, a painter can see shades (g) _____

 and shapes which little gifted (h) _____

 people cannot not see.

Ques 3. Look at the words and phrases given below. Rearrange them to form meaningful sentences. (3 Marks)

- (a) respect/said that/demanded/it/but/is/given/that/is not
 (b) if/something/then/in return for/should be/it is so/it
 (c) self-respect/come out of/something/has/our/self/that/and/is/that

c) Revise the syllabus done in the class. Read the following literature chapters thoroughly as a '**Recapitulation Activity**' at home.

- Three Questions
- Granny's Tree Climbing
- The Fun they Had

d) Make a beautiful '**Bookmark**' of size 2*7 inches using a thick sheet. Write a quote related to positive thinking/compassion on it. Laminate your bookmark. You can even put a tag to it. Be as creative as you can!

e) "Reading is food for the mind and soul!!"

Read newspaper, magazine or any book of your choice. Try to grasp the meaning of new vocabulary words. Try to converse in English with your parents/siblings at home and use the new words learnt.

Hindi

ग्रीष्मावकाश गृहकार्य
विषय: हिंदी
कक्षा: आठवीं
पूर्णांक: 20

(प्रश्न संख्या 1, 2 और 3 A-4 आकार के पृष्ठ पर होने चाहिए और प्रश्न संख्या 4 को A-3 आकार के पृष्ठ पर करना है।)

प्रश्न1. पत्र व सूचना लेखन

(4)

क. आपका मित्र रोज़ाना कम से कम दो-तीन घंटे स्मार्ट फ़ोन पर खेला करता है। इसके हानिकारक प्रभावों के प्रति मित्र को सचेत करते हुए पत्र लिखिए।

ख. अपने मोहल्ले के जिस पार्क में आप खेलते हैं, वहाँ बहुत गंदगी है। इसकी शिकायत करते हुए नगर निगम अधिकारी को पत्र लिखिए।

ग. बोलचाल की भाषा में अपमान सूचक शब्दों के बढ़ते प्रयोग पर चिंता व्यक्त करते हुए लोकप्रिय समाचार पत्र के संपादक को पत्र लिखिए।

घ. आप विद्यालय के सांस्कृतिक सचिव हैं। विद्यालय में गायन प्रतियोगिता का आयोजन होना है, जिसमें कक्षा आठवीं से दसवीं तक के विद्यार्थी भाग ले सकेंगे। इस संबंध में 80-100 शब्दों की एक सूचना तैयार कीजिए।

प्रश्न2. अनुच्छेद लेखन

(4)

क. इंटरनेट का बढ़ता प्रसार

ख. शिक्षा में खेल-कूद का स्थान

ग. प्लास्टिक - हानियाँ एवं समाधान

घ. नई सरकार की नई चुनौतियाँ

प्रश्न3. कोई भी हिंदी समाचार पत्र, पत्रिका अथवा कहानी की पुस्तक पढ़िए और उसमें से बीस नए शब्द छाँटकर उनके अर्थ लिखिए।

(2)

प्रश्न4. परियोजना कार्य

(10)

विषय: हिंदी भाषा का बढ़ता प्रभाव

संकेत बिंदु: भारत में हिंदी

विश्व में हिंदी

विभिन्न क्षेत्रों में हिंदी का प्रयोग

हिंदी और मीडिया

विषयवस्तु: 3 प्रस्तुति: 3 मौलिकता: 2 रचनात्मकता: 2

Social Science

I) Make a project on the topic 'Mineral and Energy Resources 'on the basis of following heads

A) Mineral Resources (Iron, Copper and Bauxite)

- Types
- Uses
- Places where found in the world
- Process of extraction

B) Energy Resources

- Conventional Resources (any 3)
 - a. Types
 - b. Uses
 - Non - conventional resources. (Any 3)
 - a. Types
 - b. Uses
 - Comparison between conventional and non-conventional resources of energy (in tabular form)
 - Ways to conserve energy resources.
- (10)

Parameters for assessment Project

- Content - 3 marks , Creativity - 3 marks, Presentation - 2marks
Timely Submission - 2 marks

II) Prepare a flowchart on an A3 size sheet depicting classification of resources. (5)

Parameters for assessment for Poster

- Content - 2 marks, Creativity - 1 mark, Presentation - 1 mark
Timely submission - 1 mark

III) The following chapters covered in the class must be completed in Academic support material .

- Resources : utilisation and development
- Natural resources : land, soil and water
- The modern period
- Establishment of company rule in India
- Our Constitution.

(5)

IV) Practice Questions :

Q 1 Define sustainable development?.

Q 2 Why is USA termed as a developed country.?

Q3 Name the writer of book Anandmath.

Q4 What was the slogan given by Bal Gangadhar Tilak.

Q5 What does Rule of law mean?

Q6 Define Preamble

Q7 Write any six factors on which utilisations of resources depends.

Q8. Enumerate any three steps taken by the East India company to establish their rule in india.

Q9 Write any three purposes served by the constitution of India.

Q10 Classify resources on the basis of Renewability and Occurrence.

Q11 Explain any five sources of Information of modern History

Q12 Describe any five salient features of Indian constitution.

Science

Biology: (10 marks)

Objective: To sensitize students about other Earthlings

1. Visit any wildlife sanctuary or national park (you may visit Asola wildlife sanctuary in Delhi). Observe the birds and animals you see there. Make a note of all these animals/birds. List their common name, their habits (living solo or in family, food habits, making shelter, type of shelter, nocturnal or diurnal), their status of existence in India. Design an innovative diary to record your observations.

2. Plant a **TREE**: Plant one sapling in your colony. (it should be a TREE sapling). Take care of your sapling by timely providing water, nutrition and protection. Note down the changes it shows during its growth. Your aim is to plant a shady tree in your neighbourhood for people to rest. Click pictures of your sapling showing growth. Make a creative poster showing yourself and your sapling giving a message to the world so that they can follow your footsteps.

Parameters for assessment:

- Timely submission :2 marks, Creativity :3 marks, Content of report :3 marks, Presentation of report: 3 marks

Physics/Chemistry: Project - (10 Marks)

It is disheartening to hear that Delhi, the national capital of the country, is being tagged as one of the most heavily polluted cities in the world.

Pollution occurs when pollutants contaminate the natural surroundings; which brings about changes that affect our normal lifestyles adversely.

Pollutants are the key elements or components of pollution which are generally waste materials of different forms. Being resident of a metropolitan city, we observe and experience all kinds of pollution around us daily.

Prepare a project report highlighting the following:

- Mention which of our actions or habits, do you think, cause pollution? Is transport the single source of pollution? List other sources too.
- Mention different modes of transport used by your family members for commuting. Suggest steps to be taken by them to reduce pollution.
- Do you think that the odd/even rule once adopted by Delhi Government has been of any help in reducing pollution? Should this formula be implemented again in future? Give your views.
- Make a bar graph showing Air pollution levels in different cities (Delhi, Chennai, Jaipur, Kolkata and Kanpur)
- Also draw a Concept Cartoon depicting Greenhouse Effect and Global Warming according to your imagination.

Instructions: Prepare the report on A4 size sheets and stick the graph and draw concept cartoon in the same.

Parameters for assessment :

Sources of Pollution 2 marks, Steps to reduce pollution 2 marks, Opinion on odd even rule 2 marks, Bar graph 2 marks, Concept Cartoon 2 marks

The following chapters covered in the class must be completed in Academic support material :

- 1) Pollution of Air
- 2) Earthquakes
- 3) Sources of Energy
- 4) Crop Production and its Management

Sanskrit

classmate
Date _____
Page _____

CLASS - VIII
SANSKRIT
श्रीमद्वैशम्पायन गृहकार्यम्

1. केवलं चित्राणाम् माध्यमेन वास्तुषु कथायाः
नाटकस्य वा निरूपणं कुर्वन्त ।

2. शिक्षातिः अन्वयपदानां चयनं कृत्वा
तेषां विभाजनं कुर्वन्त । यथा

(i) अनुसरति → अनु + सरति → अनुसरणं कर्तव्यम्
(ii) आजच्छति → आ + गच्छति → आता है

3. शिक्षातिः अन्वयपदानां चयनं कृत्वा तेषां
वाक्येषु प्रयोगं कृत्वा लिखन्तु । यथा

(i) अद्य → आज
वाक्य
अद्य मम अवकाशः अस्ति ।

(ii) इवः → कल (आने वाला)
वाक्य
इवः वयं अमलाय गमिष्यामः ।

RUBRICS

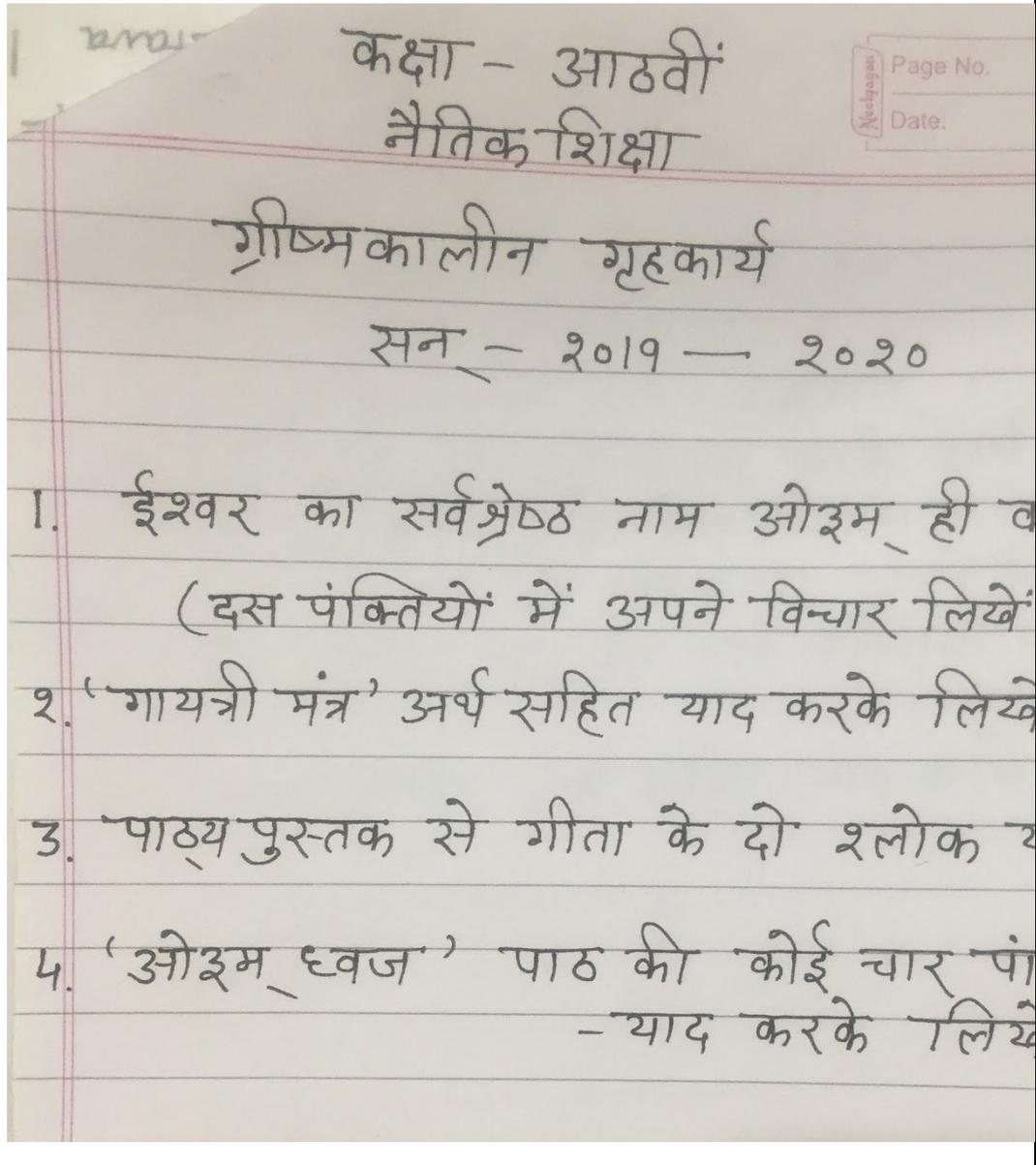
| | | | |
|-------------------|---|-----------------|---|
| 1. विषय सम्बद्धता | 5 | 2. स्पष्टता | 5 |
| 2. शैली | 5 | 4. सम्प्रबद्धता | 5 |

| | |
|--------------------------|---|
| | |
| German | <p>Project on theme 'Germany'</p> <ol style="list-style-type: none"> 1. Collect the information about the different states of Germany. 2. What is the name of official airlines of Germany? 3. What is name of central bank of Germany? 4. Name the currency of Germany? <p>Note: You may use A4 size sheets of different colours.</p> |
| Computer | <p>Collect information and pictures and present it on an A3 size Ivory Sheet on the topic given below according to the Roll numbers:</p> <p>Roll No. Topic</p> <p>1-5. LAN</p> <p>6-10 WAN</p> <p>11-15. MAN</p> <p>16-20. Twisted Pair Cables</p> <p>21-25. Coaxial Cable</p> <p>26-30. Fiber Optic Cable</p> <p>31-35. Wireless Network Technology</p> <p>36-40. Bluetooth technology</p> <p>41-45. Satellite Communication</p> <p>46-50. 4G technology</p> <p>Parameters for Assessment:</p> <p>Creativity: 4 marks, Presentation: 4 marks, Timely submission: 2 marks</p> |
| Art | <p>Time to exhibit your creativity !!!</p> <p>-Make 'ANY TWO' out of the following:</p> <ul style="list-style-type: none"> ● A keychain ● Rakhi ● Pen stand |
| General Knowledge | <p>Students have to maintain a separate notebook maintaining the record of current affairs of each day starting from 20th May, 2019. The following template needs to be followed-</p> <p>National News –</p> <p>International News –</p> <p>Sports or any other –</p> |

Note: After summer vacation KHMS G.K. Quiz will be conducted. The syllabus is as follows:

| | |
|-----------------------|---------------|
| Language & Literature | 1-7 |
| Environment Around | 17-24 |
| Current Affairs | May-June-2019 |

**Moral
Education**



All the best !! Spend your vacation joyfully and in the most constructive manner.