Kulachi Hansraj Model School

Holidays Homework, Class VIII
Session: 2018-19

'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.

THINGS TO REMEMBER:
- Always start your day with prayers.
- Wake up on time and go to 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
Mathematics	Task 1: Project (10 marks)

1. What is the difference between a prism and a pyramid?

Complete the following table:

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

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
- 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)

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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 must be subtracted from 7060 to obtain a perfect square.

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

Q5. Find the least number which must be added to 8400 to obtain a perfect square. Find this perfect square and its square root.

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. Evaluate $\sqrt{0.9}$ correct up to two places of decimal.

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

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) 125X3375
   b) 45X75
   c) 140X2450

Q5. Find the cube root by Estimation method:
   a) 12167
   b) 50653
   c) 9261

Chapter 14 (Mensuration)

Q1. *The area of a trapezium is 1080 cm². If the lengths of its parallel sides are 55.6 cm and 34.4 cm, find the distance between them.*

Q2. *The area of a trapezium is 1586 cm² and the distance between its parallel sides is 26 cm. If one of the parallel sides is 84 cm, find the other.*

Q3. *The area of a trapezium is 384cm². Its parallel sides are in the ratio 3 : 5 and the perpendicular distance between them is 12 cm. Find the length of each of the parallel sides.*

Q4. *The area of a trapezium is 180 cm² 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 2.5m X 1m and two windows of dimension of 1mX0.5m. If the dimension of the room are 6m X 5m X 10m , find the total cost of white washing the four walls and ceiling at the rate of ₹ 102 per m².

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). 4

4). 461

5). 64, 8464, 92

6). 1024, 32

7). 99856, 316

8). 1.73

9). 1.67

10). 0.95

11). 0.96

(Chapter 2)

1).1728cm^3

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. 24 cm 2. 38 cm 3. 24 cm, 40 cm 4. 23 cm, 17 cm 5. 180 cm² 6.25143 7.198 8.5:2 9.18865 10.100
English	**Question:1) Project -** Write about your **favourite author/poet** from your English Literature textbook and make it impressive with your creativity. **(10)** You may keep following rubrics in the mind while making it: Content - 3 Presentation - 3 Originality - 2 Creativity - 2 **Question:2) Integrated Grammar Worksheet (10)** {A}Complete the paragraph with suitable forms of the words given in brackets: Lakshman was just fourteen when his father and mother died, leaving him with the a)_____ (responsible) of the family. As the b) _____ (cultivate) of the six acres of land entailed a lot of work, he took on a partner. The building of the communal hut and constant repairs c)_____ (necessary) by the violent storms threw a heavy burden on them. d)_____ (protect) from wild animals was another problem and the fact that fire arms were strictly rationed made things very difficult. One morning, as Lakshman was walking through the village, at an edge of an e)_____ (irrigate) canal, he saw the tracks of a pig. This pig with great curved tusks, had wormed its way through the thorn fence and was f)_____ (feed) itself on the crops.

{B}Complete the following conversation: (4)

Receptionist: Good afternoon(a)_____ I help you?

Patient: Yes, I(b)_____ like to have an appointment to see the doctor.

Receptionist: All-right. The earliest I (c)_____ fix it is for next Monday at 4.30 pm.

Patient: I'm sorry, but I (d)_____ wait till next week! I have a fever and a very bad headache. (e)_____ you please squeeze it in some time today?

Receptionist: It (f)_____ be very difficult, but I (h)_____ try. Let me speak to the doctor and find out. He has agreed to see you between two appointments if possible. But you _____ have to wait till nine tonight.

{C}The following passage from a history textbook has not been edited. There is one error in each line. Underline each error and write your correction in the space provided: (3)

Few things have been forgotten a) _____
because we do not

have some written account of them. b) _____

Sometimes men did keep the record of c) _____
the most important happenings

in our country so it was often d) _____

destroyed by fire or in the war. e) _____
Sometimes there was never any record at all because

some people of those times knew f) _____
how to write.

Question:3) Know your grammatical skills by practising the exercises from your **"English Practice Book"** from the following chapters:

Ch-1 Tenses

Ch-3 Modals

	Ch-11 punctuation **Question:4)** Practice questions of 'Writing Skills' and attempt worksheets of Literature chapters done till date from **'Academic Support Material.'** **NOTE:** *Students would present their project to their respective class teachers. Do not forget to write your name, class and section. *Kindly take the print out of the grammar worksheet from the school's website and paste it in your notebook. *'English Practice Book' will be discussed by the teachers in the class itself.
Hindi	**1. परियोजना कार्य (10 अंक)** **विषय:** मेरा प्रिय लेखक - हिंदी के किसी प्रतिष्ठित लेखक की जीवनी लिखिए - लेखक द्वारा रची गई प्रमुख रचनाओं एवं लेखक की उपलब्धियों को सविस्तार एवं सचित्र प्रस्तुत कीजिए - यह कार्य ए - 3 आकार के पृष्ठ पर होना चाहिए **अंक विभाजन** ● कार्य पूर्णता - 4 अंक ● प्रस्तुतीकरण - 3 अंक ● भाषा - 2 अंक ● समय बद्धता- 1 अंक **2. डायरी लेखन (10 अंक)** - छुट्टियों के किन्ही पांच दिनों पर डायरी लिखिए - यह कार्य ए - 4 आकार के पृष्ठों पर होना चाहिए **अंक विभाजन** ● कार्य पूर्णता - 4 अंक ● प्रस्तुतीकरण - 3 अंक ● भाषा - 2 अंक ● समय बद्धता- 1 अंक
Social Science	**Task 1 : THEME- The Earth's Saviours** **PROJECT (10 marks)** **General Instructions** Use A4 size sheets only. Make a colourful folder.

Prepare a proper index.

Use newspaper cuttings, pictures and graphs to beautify your project.

Poster to be made only on an **A4 size** sheet and to be attached at the end.

- Write an Introduction on UN Sustainable Development Goals.
- Prepare a proper Flow chart of 17 Sustainable Development Goals set by UN.
- Explain each SDG (Students will be divided in groups according to their roll numbers ; Each group is allotted a goal to research upon).
- Roll No 1-10 Quality Education

Introduction/Meaning

Changes introduced by Britishers in Indian Education System. (refer to School textbook)

Draw out comparison between Ancient/medieval and Modern Education system.

- Roll No 11 -20 Water and Sanitation

Introduction/Meaning

Methods adopted by ancient and medieval kings to conserve water

Suggest ways to conserve water and to promote sanitation.

- Roll No 21 - 30 Climate Action

Introduction/Meaning

Describe changes in climate in recent times .

Discuss the causes leading to global warming, pollution.

Suggest ways to conserve the environment.

- Roll No 31-40 Gender Equality

Introduction/Meaning

Describe Status of women in ancient/medieval/modern.

Contributions made by different reformers during the British

Period(reference School Textbook)

Role of Directive Principles of state policy in India to achieve Gender Equality (refer to School textbook)

- Roll No 41-55 No Poverty and Zero Hunger

Introduction/meaning

Factors leading to Poverty and Zero Hunger

Describe the relationship between poverty and Hunger

Discuss effects of Poverty : Life of a Farmers

Draw out comparison in life of farmer driving British and Modern Period.

- List down the measures taken by the Government of India to achieve each goal (alloted to your group) (newspaper) (facts) (policies).
- Visit the given website links given below and jot down steps you can take to contribute to a better world.
- Prepare a Poster on any given topic.

RUBRICS
Cover Page: 1 mark
Content : 3 marks
Creativity (Pictures) : 3 marks
Poster: 3 marks

Task 2 : Complete the Assignments of the chapters completed in the classroom from the assignment booklet.
 RUBRICS
Correctness : 3 marks
Completion : 3 marks
Timely submission : 2 marks
Neatness : 2 marks

Links
- https://www.un.org/sustainabledevelopment/takeaction/
- https://practicalaction.org/global-goals
- https://www.weforum.org/agenda/2017/08/the-un-has-a-17-step-plan-to-save-the-world/
- http://www.undp.org/content/dam/undp/library/corporate/brochure/SDGs_Booklet_Web_En.pdf

Science	**Biology:** Write a project report on how the different methods of

	preservation of food work and also identify 5 food items that can be preserved by each of these methods. **(10 Marks)**
	Rubrics:
	Content: 3
	Creativity: 3
	Presentation: 2
	Timely Submission: 2
	
	Physics/Chemistry: Project - (10 Marks)
	We now understand that earthquakes are caused by the movement of earth's plates. The plate boundaries are weak zones, where earthquakes are most likely to occur. Geologists refer to these weak zones as **fault zones** or **seismic zones.**
	
	India is divided into 5 seismic zones. The zone 5 includes the areas that are most threatened.
	  • On a physical map of India, mark the 5 seismic zones in India. (5)
	  • Prepare a brief report on the role that an architect should play, while designing buildings in seismic areas. Also mention some safety precautions that should be taken by the Government to withstand the earthquakes in these zones. (5)
	
	Instructions: Prepare the report on A4 size sheets and stick the map on the same.
	Rubrics: Neatness (2)
	                Location on the map (3)
	                Report (5)

Sanskrit	१) स्व पुस्तकात् विंशति:अव्यय पदानि चि त्वा तेषाम् सरल संस्कृत वाक्येषु प्रयोगम् कुरुत। २)चित्राणाम् सहायतया कस्यापि कथाया: चित्रणम् कुरुत। **(यह दोनों प्रश्न ए 4 साइज़ के पृष्ठों पर किए जाएं। दोनों ही प्रश्नों के अंक समान अर्थात् १० हैं। मूल्यांकन करते समय अव्ययों का उचित प्रयोग देखा जाएगा। अव्यय पुस्तक से ही चुनें।** **दूसरे प्रश्न में मूल्यांकन करते समय चित्रों की तारतम्यता देखी जाएगी अर्थात् यह देखा जाएगा कि आप केवल चित्रों के माध्यम से कथा समझा पा रहे हैं या नहीं।)**
German	Project on theme 'Germany' 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? **Note:** *You may use A4 size sheets of different colours.
Computer	Make a **folder** (any thick sheet of any colour) of height, 13 inch and width 10 inch, with the cover design on the topic given: **(10 Marks)** R.no. 1 to 10: "A World of Digital Computing" R.no. 11 to 20 : "Artificial Intelligence in 2050" R.no. 21 to 30 : "Virtual Reality" R.no. 31 to 40: "Regard or Discard an E-Waste" R.no. 41 to 55: "Internet my Buddy "
Art	**Card Making:** Make a **card** of size 4 inch by 6 inch, theme **'Rangoli Design.'** Use your creativity in any way, but black pen should be used for outlining your designs. **(10)** **Note:** Write your name, class and section.
General Knowledge	Students have to maintain a separate notebook maintaining the record of current affairs of each day starting from 20th May, 2018. The following template needs to be followed- National News – International News – Sports or any other – *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-2018 All the best !! Spend your vacation joyfully and in the most constructive manner **:)**

You can do anything
if you have enthusiasm.
~ Henry Ford

Imagine
        with all your mind.
Believe
        with all your heart.
Achieve
        with all your might.
www.healthythoughts.in