KOTHARI INTERNATIONAL SCHOOL, PUNE
SESSION 2023-24
SUMMER VACATION HOMEWORK
CLASS: X

GENERAL GUIDELINES:

- ***Do not copy & paste from the Internet****. Questions will be asked verbally on the content of the assignments given.*
- *Submission of Holiday HW:* ***12th June 2023.*** *Marks will be deducted if not submitted by the due date.*
- *The Holiday Homework can be downloaded from the* ***School's website***
- *For Assignment related queries, do contact the* ***subject teacher via e-mail*** *given underneath every subject assignment.*
- *Marks awarded will be counted in the final scores at the end of the session.*
- *The Summer Vacation HW will be submitted immediately upon arrival to school after Summer Vacation.*
- *For any assignment related query do post your question on the E-Mail ID of the respective subject teacher. List of Subject Teacher's E-Mail ID attached.*

Note to Parents

- ***Parents are requested to guide his/her wards to complete their assignments honestly and submit by the due date.***
- ***All the subject homework should be submitted in separate transparent file folders labeled neatly on the top right hand side corner.***

ENGLISH

Activity

Lencho suffered first due to drought and then by floods.Our country is also facing such situations in recent years.There is both flood and drought. There is a need to save water through water harvesting. Design a **poster** for your area on how to save water during summer and when it is available in excess.

Thinking about the poem

1.(Dust of snow) Have there been times when you felt saddened or dejected? Have you experienced a similar moment that changed your mood that day? Elaborate your feelings in the form of a write-up not exceeding 200 words.

2.(Fire and Ice) There are many ideas about how the world will 'end'.Do you think the world will end someday? If yes then how?

Formal Letter writing

You are Ritika Sharma ,a resident of Delhi.With the increase in choice of processed food and an inactive lifestyle,the problem of obesity is rising.Write a letter to the editor of The Times Delhi,expressing your concern regarding the issue and suggest measures that can be taken to reduce the problem (100-120 words)

Expressing your opinion

Do you think there is colour prejudice in our own country?Write a paragraph in about 150 words on this.You may refer to the extract below to get more ideas for your answer.

"When I'm born I'm black, when I grow up I'm black, when I'm in the sun I'm black, when I'm sick I'm black, when I die I'm black, and you… when you're born you're pink, when you grow up you're white, when you're cold you're blue, when you're sick you're blue, when you die you're green and you dare call me colored"— **Oglala Lakota**

हिंदी

कार्य-

किताब 'संचयन भाग २ 'से **'हरिहर काका'** पाठ पढ़े और नीचे दिए गए बिंदुओं के आधार पर पाठ का एक आकर्षक **'माइंड मैप'** बनाइए |

१. कथावाचक और हरिहर काका के बीच क्या सम्बन्ध

२. हरिहर काका को महंत और अपने भाई एक ही श्रेणी के

३. ठाकुरबारी के प्रति गाँव वालों के मन में अपार श्रद्धा भाव

४. अनपढ़ होते हुए भी हरिहर काका दुनिया की बेहतर समझ

५. हरिहर काका के मामले में गाँव वालों की राय

६. समाज में रिश्तों की क्या अहमियत

FRENCH

A detailed research on the French Education system.
 Find out the differences and similarities between the French Education System and the Indian Education system.
Which one would you prefer?
Why?

MATH

1. Show that 12n cannot end with the digit 0 or 5 for any natural number n.
2. In a morning walk, three persons step off together and their steps measure 40 cm, 42 cm and 45 cm, respectively. What is the minimum distance each should walk so that each can cover the same distance in complete steps?
3. A circular field has a circumference of 360 km. Three cyclists start together and can cycle 48, 60 and 72 km a day, round the field. When will they meet again?
4. Find the smallest number which leaves remainders 8 and 12 when 4divided by 28 and 32 respectively.
5. Find the greatest numbers that will divide 445, 572 and 699 leaving remainders 4, 5 and 6 respectively.
6. Find the greatest number which divides 2011 and 2423 leaving remainders 9 and 5 respectively
7. Find the greatest number which divides 615 and 963 leaving the remainder 6 in each case.
8. Find the greatest number which divides 285 and 1249 leaving remainders 9 and 7 respectively.
9. Show that the number of the form 7n , n € N cannot have unit digit zero.
10. Explain why $3 \times 5 \times 7 + 7$ is a composite number.

Let's do:

Take previous five years sample papers. Choose the questions from Ch -1, Real Numbers & Ch-2, Polynomials and solve them in your Math nb.

PHYSICS

SECTION A

1. The image of a candle flame placed at a distance of 30 cm from a mirror is formed on a screen placed in front of the mirror at a distance of 60 cm from its pole. What is the nature of the mirror? Find its focal length. If the height of the flame is 2.4 cm, find the height of its image. State whether the image formed is erect or inverted.

2. An object 4 cm in height, is placed at 15 cm in front of a concave mirror of focal length 10 cm. At what distance from the mirror should a screen be placed to obtain a sharp image of the object. Calculate the height of the image.

3. The image of an object formed by a mirror is real, inverted and is of magnification -1. If the image is at a distance of 40 cm from the mirror, where is the object placed? Where would the image be if the object is moved 20 cm towards the mirror? State reason and also draw ray diagram for the new position of the object to justify your answer.

4. The image formed by a spherical mirror is real, inverted and its magnification is -2. If the image is at a distance of 30 cm from the mirror, where is the object placed? Find the focal length of the mirror. List two characteristics of the image formed if the object is moved 10 cm towards the mirror.

SECTION B

Using basic concepts of physics, Make a working model on any renewable resources of energy. (Solar Cooker / Wind energy model).

BIOLOGY

How to do:-

Lesson-6 [NCERT] Science, Class-10, "Life Processes"

Read the topic : INTRODUCTION to LIFE PROCESSES & TRANSPORTATION

What to do:-

i. Prepare assertion & reasoning questions from the pages 79-80 & 91 to 95 and 3 competency based questions.

ii. Draw a mindmap of the concepts read.

SOCIAL SCIENCE

Think and answer-

1.How can the problem of deforestation be solved?

2.What are the problems faced due to mismanagement of resources?

3. Imagine if oil supplies get exhausted,how will this affect our lifestyle?

4.Major points on the 'Treaty of Viennna'.

5. Project Tiger (Ch.Forest and wildlife resources)

Short notes

1.Giuseppe Mazzini

2.Count Camillo de Cavour

3.Giuseppe Garibaldi

Map Work-

India-Major soil types

Diagram

Directorate of Economics and statistics

Project

 Make a project showing consumption and conservation of resources in
 your locality.

Picture-based question

In what way do you think this picture depicts a Utopian vision?

ICT

During the holidays, observe and write cases in short story format where one of the perspectives/ barriers affected communication (at least 5 stories on different factors).

Your story should be clear, complete and coherent.

If more than one factor is present for one case study, then all of them should be mentioned.

Create your own template, style and use to make the document in MS Word.

Submit the printout in A4 sheets.

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