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# D.A.V. PUBLIC SCHOOL

MANPUR, KAIYA, GAYA

Summer Vacation Homework 2023-24

Class: IX

## MATHEMATICS

1. COMPLETE CHAPTERS

i) Number Systems

ii) Polynomials

FROM NCERT TEXTBOOK

2. PROJECT WORK:-

Write biography of an Indian Mathematician and Mention his/her Contribution in the field of Mathematics.

3. ACTIVITY:-

i) To construct a square root spiral (On a chart paper)

ii) To verify the Algebraic Identity (by using Paper cutting method)

$$(a+b)^2 = a^2 + 2ab + b^2$$

## ENGLISH

Beehive

Read and complete the Q/A of The Fun They Had

Moments

Read and complete the Q/A of The Lost Child

Grammar and Writing Section

01. Make a fair note of Verb-forms, Articles and Prepositions [From a sample book]

02. Read any story and write a review on that in your fair copy.

## SCIENCE

### BIOLOGY

1. Write a short note on Discovery of Cells and Cell Organelles.

2. Define Osmosis. Give an account of Osmotic solutions, Types of Osmosis, Effects of Osmosis on cells.

3. Make a model of Plant Or an Animal cell using eco friendly materials.

4. Make an Art Integrated Project on Management Of Food Resources.

## CHEMISTRY

1. Define the following terms:

(a) Diffusion (b) Compressibility (c) Sublimation (d) Deposition (e) Latent heat of vaporization (f) Latent heat of fusion (g) Evaporation (h) Boiling (i) Fluidity (j) Rigidity

Project: Draw a diagram to show the change of state of matter and label the process on it.

## PHYSICS

Complete all define and intext question of Motion in physics notebook.

Complete exercise work of motion in notebook.

Project work :- Write biography of Isaac Newton with his picture on chart paper.

## HINDI

०१. (क्षितिज) 'दो बैलों की कथा', 'ल्हासा की ओर', 'साखियाँ', 'सबद', 'वाख' तथा 'सवैये' के प्रश्नोत्तर लिखकर याद करेंगे।

०२. (कृतिका) 'इस जल प्रलय में' पाठ के प्रश्नोत्तर लिखकर याद करेंगे।

०३. (व्याकरण) - उपसर्ग, प्रत्यय, समास तथा पठित अलंकारों की सोदाहरण परिभाषा लिखकर याद करेंगे।

०४. (परियोजना कार्य) - चार्ट पेपर पर उपसर्ग-वृक्ष अथवा समास-वृक्ष बनाएँगे।

## **SANSKRIT**

मणिका भाग-1

'अविवेकः परमापदां पदम् ' पाठ के सभी प्रश्नों को अभ्यासपुस्तिका (H.W) में लिखें।

व्याकरण- (1)- संधि -दीर्घसंधि, गुणसंधि, वृद्धिसंधि, यण् संधि एवं अयादि संधि के दस-दस उदाहरणों को संधि व विच्छेद करके लिखें।

(2)-शब्दरूप-बालक, लता, फल, साधु, नदी, वारि,पितृ, राजन् अस्मद्, युष्मद् एवं किम् शब्द(तीनों लिंगों) के रूप सभी विभक्तियों एवं वचनों में लिखें और याद करें।

(3)-धातुरूप- पठ् ,गम्, वद्,भू, क्रीड् नी, अस् धातुओं के रूप सभी पुरुषों एवं वचनों में लिखें।

(5) संख्या- 1-60 तक के रूप संस्कृत में लिखें।

(6)- प्रत्यय-क्त्वा, ल्यप् एवं तुमुन् प्रत्ययों से बने शब्द के रूप दस-दस वाक्यों में करें।

परियोजना-कार्य- 'पाथेयम्' पाठ के चार श्लोकों को चार्टपेपर पर लिखें और लयबद्ध विडियो बनाएँ।

## **SOCIAL SCIENCE**

### **HISTORY**

1. Why did people in France struggle to survive?
2. What was the role of French philosopher in the France to end privilege.?
3. Describe the circumstances leading to outbreak of revolutionary protest in France.
4. How France became a constitutional monarchy?

### **POLITICAL SCIENCE**

1. State the main features of democracy.
2. How did Musharraf establish his rule in Pakistan?
3. Explain any Five demerits of democracy.
4. Explain any five merits of democracy.

### **Geography & Economics**

1. What is the main reason behind growing three crops in a year?
2. Why is there heavy competition for work among the farm labourers in village Palampur?
3. What do you understand by the Green Revolution?
4. How can you say that the use of modern farming methods are beneficial for Indian farmers?
5. What are the harmful effects of the Green Revolution?
6. What are the major disadvantage associated with the usage of HYV seeds? Explain.
7. What do you mean by physical capital? What are the items that come under physical capital?
8. How does India occupy an important strategic position in South Asia?
9. Why is India called a subcontinent?
10. Why do the days and nights are almost of equal duration at Kanyakumari?
11. What was the contribution of land routes to India in ancient times? Explain.
12. Why is the knowledge of latitude and longitude important for people?

## **COMPUTER (I.T)**

Write the notes of the following topics :-

- i. Define : Communication, Types of communication, Elements of communication,
- ii. What are barriers in communication? How we can remove the barriers in communication,
- iii. Explain the 7Cs of effective communication.
- iv. Define the following - Call center, BPO, BPM, Touch Typing.

**\* HAPPY HOLIDAY \***

Also available at : <http://davmanpurgaya.org/Assignment>