



APEX PUBLIC SCHOOL

HOLIDAYS HOMEWORK (2022-23)



CLASS IX

Subject-English

1. Read the poems 'The road not Taken' and 'Wind', imagine the scene of the poem and draw a beautiful painting (on any one poem on A3 size sheet).

Given below is a list of literary devices. Highlight the presence of the listed literary devices in the given poems while explaining them too.

- a) Simile
- b) Metaphor
- c) Personification
- d) Irony
- e) Iliteration

2. Make your own storybook with a beautiful cover. Put all your stories with relevant pictures in the book. (Typed and colorful with spiral binding)

a) Write three stories with moral (150-200 words).

b) The stories should have at least ten difficult words/phrases /dialect. Prepare a glossary for each story in the form of a small dictionary.

3. Create your own diary in which you will write twice a week about one of your virtuous acts which you will do like helping your mother, helping physically disabled people or underprivileged or about the happiest moments of the week. (100-150 words)

Where to do small handmade diary which should be properly decorated.

Parameters: Creativity, Content, Authentication.

4. Practice Ch- 1,2and 3 in workbook (words and expressions part 1)

Assignment No.1

I. Answer the following questions:

1. Write a short note on the school system in "The Fun They Had".
2. How does the poet resolve the dilemma? Which road does he choose and why?
3. How does Evelyn hear music?
4. Describe the character of the child as depicted in the story ' The Lost Child'.
5. Where did Bismillah Khan play the Shehnai on 15 August 1947? Why was the event historic?

II. Fill in the blanks with suitable verb forms:

1. I _____ (make) my project. I am free now.
2. Jack _____ (begin) travelling the world in 2008.
3. When I _____ (go) to the railway station, the train _____ (leave) already the station.
4. Jimmy wanted to _____ (kill) himself.
5. Bethany was _____ (bite) by a shark.
6. Once when I _____ (be) in a car at traffic lights, a girl _____ (look) at me interestingly.
7. I _____ (buy) a scooty next week.
8. There _____ (be) a great value in disaster.
9. Before he _____ (become) the president of the United States, Lincoln _____ (fail) many times.
10. I _____ (be) busy when you came there Note: Do the assignment no. 1 on A4 size ruled sheets.

विषय-हिंदी

नोट-लिखित कार्य आकर्षक, सृजनात्मक और प्रस्तुति योग्य होना चाहिए। इसमें अंक दिए जाएँगे।

सारा कार्य A.4 साइज़ शीट्स पर करना है और शीट्स को फ़ाइल में लगाना है।

- कक्षा में पढ़ाए गए प्रत्येक पाठ के प्रश्नोत्तर याद करके लिखें।

- 1- 'प्रेमचंद' की कोई एक कहानी अपने शब्दों में शीर्षक के साथ लिखिए।
- 2- 'रहीम' के कोई पाँच दोहे पुस्तक से अलग लिखिए।
- 3- यदि आप भारत के किसी भी भाग में अथवा किसी विदेश में कभी यात्रा के लिए गए हैं तो उसको अपने शब्दों में लिखिए।
- 4- बड़े होकर अपने माता-पिता तथा अपने देश के सम्मान के लिए आप क्या और कैसे बनना चाहेंगे अपने शब्दों में लिखिए (100 शब्दों में)।
- 5- हमारे भारत को एक बार फिर "सोने की चिड़िया" बनाने में आप क्या योगदान देंगे (100 शब्दों में अनुच्छेद लिखिए)।
- 6- 'स्मृति' पाठ पर आधारित लघुकथा लेखन 100 शब्दों में लिखिए।
- 7- प्रतिदिन एक अच्छा कार्य करें और उसकी एक सूची बनाएँ।
- 8- 29 जुलाई स्कूल के स्थापना दिवस पर 80-100 शब्दों में एक कविता लिखिए।
- 9- 'समय के सदुपयोग', 'शिक्षा और छात्र के बीच', 'दो मित्रों के बीच' संवाद लेखन करें।
- 10- भारत के प्रमुख वैज्ञानिकों की सूची उनके कार्यों/योगदानों के साथ बनाइए।

निम्नलिखित विषयों पर मॉडल व चार्ट बनाइए:-

- 1) रोल नंबर 1-5 : पर्यावरण की सुरक्षा से संबंधित विषय पर आकर्षक वर्किंग मॉडल बनाएँ।
- 2) रोल नंबर 6-10: 'आदिकाल' के प्रसिद्ध कवियों की जानकारी देते हुए चित्र सहित चार्ट/मॉडल तैयार करें।
- 3) रोल नंबर 11-15: 'भक्तिकाल' के कवियों की जानकारी देते हुए चित्र सहित चार्ट/मॉडल तैयार करें।
- 4) रोल नंबर 16-20: हिंदी के महान कवियों पर सुंदर लिखावट में चार्ट बनाइए या पाठ - गिल्लू पर आधारित महादेवी वर्मा का स्केच बनाइए।
- 5) रोल नंबर 21-25 : 'उपसर्ग एवं प्रत्यय के 10-10 शब्दों को सुन्दर ढंग से लिखें या गुरुकुल की जानकारी देते हुए मॉडल बनाएँ।
- 6) रोल नंबर 26-30: 'आधुनिक काल' के कवियों की जानकारी देते हुए चित्र सहित चार्ट/मॉडल तैयार करें।
- 7) रोल नंबर 31- 35: अपने पसंद के किसी भी विषय पर आकर्षक मॉडल बनाइए या यशपाल की जीवनी तथा उनका स्केच बनाइए।
- 8) रोल नंबर 36- 40 : कोरोना वायरस से सुरक्षा वा सावधानी से संबंधित मॉडल तैयार करें।
- 9) रोल नंबर 41- 45: हिंदी से संबंधित महान रचनाकारों के स्केच बनाइए।

Assignment -1 (2022-23)

1. 'धूल' पाठ की रचना का मुख्य उद्देश्य क्या है ?
2. पाठ (दुःख का अधिकार) के आधार पर बताइए कि शोक के समय धनी और निर्धन की दशा में क्या अंतर होता है ?
3. इस पाठ का शीर्षक 'दुःख का अधिकार' कहां तक सार्थक है स्पष्ट कीजिए।
4. पाठ 'धूल' में मनुष्य का सबसे बड़ा दुर्भाग्य लेखक ने किसे बताया और क्यों?
5. 'रैदास' और 'रहीम' की रचनाओं का संकलन कीजिए।

6. रैदास के पदों का प्रतिपाद्य लिखिए।
7. गिल्लू और लेखिका के संबंध की घनिष्ठता स्पष्ट कीजिए।
8. 'गिल्लू' पाठ का सार लिखिए।
9. शब्द की परिभाषा देते हुए इसकी प्रमुख विशेषताएं बताइए।
10. पढ़ाए गए पाठों में से अनुस्वार शब्द छांटिए।

Subject - Mathematics

Prepare Models/ charts on the topic given to you.

Roll no. 1 to 3

1. Model of Square Root Spiral STAIRS

Roll no. 4 to 6

2. Make a Working Model of Co-ordinate Geometry from 2-D to 3-D.

Roll no. 7 to 9

3. Angle Sum Property of Quadrilaterals Model

Roll no. 10 to 12

4. Area of Rhombus Model

Roll no. 13 to 15

5. Representation of Numbers in a number line Model

Roll no. 16 to 18

6. Cartesian Plane in Coordinate Geometry Model

Roll no. 19 to 21

7. The total Surface area of a Cuboid Model

Roll no. 22 to 24

8. Euclid's Geometry Model

Roll no. 25 to 27

9. Types of Triangles Model

Roll no. 28 to 30

10. Probability and Statistics Model

Roll no. 31 to 33

11. Area and Perimeter of Different types of figures and shapes

Roll no. 34 to 36

12. Model Types of Angle Model

Roll no. 37 to 40

13. Shapes of Geometry Model

Solve the Given Worksheet of ch.1 and 2 in a separate Notebook

WORKSHEET:- 1
Number System

1. Write first five whole numbers in $\frac{p}{q}$ form, where p and q are integers and $q \neq 0$
2. Find decimal expansion of $\frac{17}{8}, \frac{3}{15}, \frac{2}{7}, \frac{50}{3}$.
3. Find four rational numbers between $\frac{2}{9}$ and $\frac{3}{7}$.
4. Find decimal form of $\sqrt{23}$ and $\sqrt{24}$ upto 3 decimal places.
5. Find two Irrational numbers between $\sqrt{23}$ and $\sqrt{24}$.
6. Find one Irrational and one rational number between 2 and $\sqrt{5}$.
7. Write two numbers whose decimal expansions are terminating.
8. What can be the maximum number of digits in the repeating block of digits in the decimal expansion of $\frac{5}{7}$?
9. Write two numbers whose decimal expansions are non-terminating non-repeating (non-recurring).
10. Find the value of $(256)^{0.16} \times (256)^{0.09}$
11. Find two Irrational numbers between 2016 and 2017.
12. Represent $-\frac{7}{5}$ on the number line.
13. Represent following on number line
 - i) $\sqrt{5}$
 - ii) $\sqrt{13}$
 - iii) $\sqrt{9.3}$
 - iv) $\sqrt{2}$
14. Represent $3 + \sqrt{2.6}$ on the number line.
15. Insert two Irrational numbers between $\frac{2}{3}$ and $\frac{3}{2}$

WORKSHEET: - 2

Polynomial

1. Write the coefficient of y^3 in $5y^3 + 2y^2 - y + 5$
2. Find the coefficient of x^2 in $(x^2 - 1)(x - 2)$
3. If $(x - 2)$ is one of the factor of $3x - 2a$, then find the value of a .
4. Find the degree of polynomial $\frac{x^3 + 3x - 1}{5} - \frac{5}{2}x^2 - x^5$
5. If $p(x) = x^3 - 3x^2 + 2x - 3$ find the value of $p(1) + p(-1)$.
6. Find zeros of the polynomial $z^2 - 8$
7. Divident = Divisor \times Quotient + _____.
8. Give an example of Trinomial of degree 3.
9. Give one example of each monomial, binomial and quadratic polynomial.
10. Check whether $x = 3$ is a zero of polynomial $x^2 - 3x + x - 3$.
11. Write the degree of the polynomial $\sqrt{7}$
12. If one of the zero of polynomial $3x^2 + 5x + k$ is -1 , then find out the value of k .

13. Express $4x^2 - 4x + 1$ as a square of binomial.

Part – B

14. Check whether $q(x)$ is a multiple of $r(x)$ or not.

$$\text{If } q(x) = 2x^3 - 11x^2 - 4x + 5, r(x) = 2x + 1$$

15. Show that $(x - 5)$ is a factor of $x^3 - 3x^2 - 4x - 30$ by Remainder theorem.

16. Evaluate by using suitable identity : $(997)^3$

SUBJECT – SOCIAL SCIENCE

A. Project Work – DISASTER MANAGEMENT

Activity-Individual Activity

1. Make a project on earthquake prone areas in India – causes, impact on life and property seismic zones, mitigation strategies used to reduce the impact in earthquake prone areas. (Roll No. 1-25)
2. Collect information on areas prone to cyclones in India –warning systems, effects of cyclones, mitigation strategies to be used while construction of buildings (Roll. No. 26-45)

GUIDELINES FOR THE PROJECT

- a. Project to be done on A-4 size sheet
- b. Project should be handwritten for 15 pages
- C. On the first page student Performa to be given- Name, Class, Roll no., Name of the school, year of submission and topic.
- d. Acknowledgement
- e. Content or Index
- f. At the last Bibliography or references
- g. Newspaper cuttings, maps, diagram, illustrations are must
- h. Project should be strictly based on India
- i. Use your Disaster Management book for reference

B. “The Covid-19 pandemic could have a devastating impact on the livelihood and food security of millions of people across India” On an A4 size sheet, write down the steps that can be taken by Central government of India to ensure and tackle Food security in India during pandemic situation. [Refer to Ch-4 (Economics) Food Security in India]

C. Prepare Models/ charts on the topic given to you.

D. Complete your written work.

E. Revise your chapters.

F. Complete worksheet 1 and Worksheet 2 in your class work exercise book.

Worksheet 1 (GEOGRAPHY)

1. Write a short note on 'coral polyps'.
2. What is the significance of the Northern Plains?
3. Write short notes on the following:
 - (a) Himadri
 - (b) Himachal
 - (c) Shivalik
 - (d) Purvanchal
4. Write a short note on the Western Coastal Plains.
5. How do different physiographic regions of India complement each other?
6. Give an account of the four divisions of Himalayas from west to east along with Purvachal hills.
7. Mention divisions of Northern Plains marked by rivers.
8. Differentiate between bhabhar and terai.
9. Discuss the importance of the Northern Plains.
10. Differentiate between western ghats and eastern ghats.

Worksheet 2 (History)

The French Revolution

- 1) How many prisoners were there in Bastille?
- 2) Why was Bastille hated by all?
- 3) Which family did the king belong to?
- 4) What do you mean by the term "tithes"?
- 5) What was the direct tax called?
- 6) What idea did the philosopher John Locke give?
- 7) When did Louis XVI call the meeting of the estate general?
- 8) When and where was Napoleon defeated?
- 9) How many representatives did the first and the second estates send?
- 10) On which principle had the estate general voted in the past?
- 11) When and by whom was the fortress prison Bastille stormed?
- 12) What was the main purpose of the constitution?
- 13) Who composed the song "Marseilles"?
- 14) Which period is referred to as the reign of terror?
- 15) What was guillotine?
- 16) Who invented guillotine?
- 17) What did the most women of the third estate do?
- 18) In which year did the women of France win the right to vote?
- 19) What do you know by triangular slave trade?
- 20) Who reintroduced slavery in France?
- 21) Do this assignment in your register & learn.

WORKSHEET 3 (CIVICS)

1. What is Democracy, Why Democracy?
2. What is Democracy?
3. How do people elect their Representatives in China?

4. What does Referendum mean?
5. What was PRI?
6. How did Pervez Musharraf establish his rule in Pakistan?

DO THESE QUESTIONS IN YOUR REGISTER

SUBJECT - SCIENCE

A. Make working/ non-working models on the following topics:

❖ **PHYSICS** (Roll numbers – 1 to 15)

Roller Coaster, Newton's Cradle, Hydraulic Machine, Solar Lantern, Telescope, Fan cart, Electroscope, Water turbine, Generator, Magnetic Railway Signal

❖ **CHEMISTRY** (Roll numbers – 16 to 30)

Structure of an Atom, Plum Pudding Model, Rutherford's Atomic Model, Dalton's Atomic Theory, Environmental Pollution

❖ **BIOLOGY** (Roll numbers – 31 onwards)

Plant Cell, Animal Cell, Neuron

Q.2 Make a project on “**Concentration of Natural Resources**” of at least 5 pages.

Q.3 Make a **Pictionary** of 30 new words related to Chemistry from the chapters of NCERT and paste pictures related to the topics.

Q.4 Make **2D/ 3D charts** on one of the following topics:

- Types of animal tissues
- Modes of transmission of diseases
- Different states of matter

Q.5 Do Chemistry assignment of L-1 attached herein (to be done on A4 size sheets).

Chemistry Assignment

Q1 Account for the following

- a) Dogs generally hang out their tongue in summer
- b) Smell of lighted incense stick spreads several meters away
- c) Sponge though compressible is a solid

Q2 Water as ice has a cooling effect where as water as steam may cause severe burns. Explain these observations.

Q3 Discuss the effect of increasing temperature and pressure on the liquid state of a substance. Are these effects similar? If not assign reasons.

Q4 5ml of water was taken in a test tube and china dish separately. These samples were then kept under different conditions as below

Both the samples are kept under a fan

Both the samples are kept inside a cupboard

- a) State in which case evaporation will be faster? give reasons
- b) How will the rate of evaporation change if above activity is carried out on a rainy day? Justify

Q5 Explain how will you separate Ammonium chloride and common salt using sublimation

Q6 Write an activity to prove that liquids of different densities diffuse at different states.

Q7 All of us are familiar with LPG cooking gas cylinder used at home

- a) What is the full form of L.P.G?
- b) What is it composed of?
- c) In what form gas is stored? What are the factors responsible for it?
- d) What is the change observed when regulator is opened? Why?

Q8 Convert

- a) 5°C to Kelvin
- b) 345 K to °C

Q.6 Do Physics assignment of Ch - 8 attached herein (to be done on A4 size sheets).

PHYSICS (MOTION)

1. A car increases its speed from 20 km/h to 50 km/h in 10 seconds. What is its acceleration?
2. A ship is moving at a speed of 56km/h. One second later, it is moving at 58km/h. What is its acceleration?
3. A scooter acquires a velocity of 36km/h in 10 seconds just after the start. Calculate the acceleration of the scoter.
4. A racing car has uniform acceleration of 4m/s². What distance will it cover in 10 seconds after start?
5. A car acquires a velocity of 72km/h in 10 seconds starting from rest. Find (a) the acceleration (b) the average velocity (c) the distance travelled in this time.
6. A body is accelerating at a constant rate of 10m/s². If the body starts from rest, how much distance will it cover in 2 seconds?

7. An object undergoes an acceleration of 8m/s^2 starting from rest. Find the distance travelled in 1 second.
8. A moving train is brought to rest within 20 seconds by applying brakes. Find the initial velocity, if the retardation due to brakes is 2m/s^2 .
9. A car accelerates uniformly from 18km/h to 36 km/h in 5 seconds. Calculate (i) acceleration and (ii) the distance covered by the car in that time.
10. A body starts to slide over a horizontal surface with an initial velocity of 0.5 m/s . Due to friction, its velocity decreases at the rate of 0.05 m/s^2 . How much time will it take for the body to stop?
11. A train starting from the rest moves with a uniform acceleration of 0.2 m/s^2 for 5 minutes. Calculate the speed acquired and the distance travelled in this time.
12. A bus was moving with a speed of 54 km/h . On applying brakes, it stopped in 8 seconds. Calculate the acceleration and the distance travelled before stopping.
13. A motor cycle moving with a speed of 5 m/s is subjected to an acceleration of 0.2 m/s^2 . Calculate the speed of the motor cycle after 10 seconds and the distance travelled in this time.
14. The brakes applied to a car produce an acceleration of 6 m/s^2 in the opposite direction to the motion. If the car takes 2 seconds to stop after the application of brakes, calculate the distance it travels during this time.
15. A train starting from rest attains a velocity of 72 km/h in 5 minutes. Assuming that the acceleration is uniform, find (i) the acceleration and (ii) the distance travelled by the train for attaining this velocity.

SUBJECT-COMPUTER SCIENCE

Category-1(Working Models)

(any one)

1. Abacus
2. Napier Bones
3. Simple Robot (drawing and scribbling)
4. Smartphone Projector
5. Simple Projector
6. Walking Mini robot

Category-2(Charts and Models)

(any one)

Types of communication-(Guided Media)

1. Paste and fix twisted pair cable, coaxial cables, fiber optics pieces, name them and describe.
2. Types of communication-(UNGuided Media) Thermocol models of data transfer from on device to another using Bluetooth and WIFI.
3. BIG Back Wall Banner size Keyboard e.g



Do revise your Part-A Employability skills ,Unit-1 communication skills-I.

NOTE:- Above given diagram is just example ideas. You can use your creativity to build these charts/models.

NOTE: DO THESE QUES. IN A4 SIZE SHEET AND BIND IN A FILE.

1. Explain the elements of communication cycle.
2. Write difference between sender and receiver.
3. What is effective communication? What can be the barriers to effective communication?
4. What are the advantages and disadvantages of oral communication?
5. What are the advantages and disadvantages of visual communication?
6. Define prejudice, visual perspective, beliefs in terms of perspectives in communication.
7. How does the environment affect communication? Cite an example.
8. What are the 7'Cs of communication? Explain them.
9. List down the parts of speech.
10. Write rules for writing a paragraph.

