



NIRJA SAHAY DAV PUBLIC SCHOOL

GOSHALA COMPLEX, KANKE, RANCHI-06
SUMMER VACATION HOLIDAY HOMEWORK

2023-24
CLASS-IX

"Success is the sum of small efforts repeated day in and day out".

DEAR PARENTS,

Summer vacation is a time for the children to enjoy and relax. These days are precious and valuable and can be made most from if judiciously used. We should always remind ourselves that children will not remember us for the gifts we shower upon them but will always cherish the time we spent with them. It's time to nurture young minds, inculcate moral values and narrate family anecdotes to keep them in touch with their roots.



Few tips to make the vacation a fruitful time for your child.

Its SUMMER TIME again. Time for strengthening family bond, tying threads of family tree, sharing joys and sorrows, having a good time together. Look for interesting books and read as much as you can about the places and people. Take good care of your health and hygiene. Avoid heavy and oily food and increase intake of fresh fruits and water to keep yourself well hydrated and energetic. Use Holiday Homework as an opportunity to spend quality time together. The role of the parent is to be a facilitator and guide to steer the child in the right direction. Encourage your child to take up yoga or any other form of healthy activity during the vacation. Involve children in household chores. Enjoy walking with them in parks and appreciate nature.

General Instructions:- Bring holidays homework neatly decorated. We are not expecting a work of art completed by parents, just help your ward and encourage him/ her to do the task themselves. Original work by the child shall be acknowledged. Project / Homework will be assessed and awarded on the basis of neatness and creativity. Follow the guidelines given by teachers to complete specific activities.



Happy holidays

ENGLISH

Section 1 - READING SKILL

1. Read the editorial of an English Newspaper of your choice and express your views on the same.
2. Read any two novels and write book review in your book review copy.

Suggested Readings:

- a) Three Men in a Boat - Jerome K Jerome
 - b) Harry Potter - JK Rowling
3. Prepare and practice for Periodic Test I

Section 2 - SPEAKING SKILL

1. Prepare speech on the following topics:
 - a) Health & Fitness
 - b) Save Environment for Life
2. Community outreach programme:
 - a) Neighbourhood Cleanup
 - b) Dress the Undressed



विषय-हिंदी

- 1- 'दो बैलों की कथा' पाठ के प्रश्नोत्तर अपनी कॉपी में लिखें।
- 2- कबीरदास की जीवनी, सबद और साखियों को व्याख्या सहित क्रमवार प्रस्तुतीकरण (ppt) तैयार करें।
- 3- पुलिस अधीक्षक को अपने क्षेत्र में बढ़ रही नशे की प्रवृत्ति की रोकथाम के लिए सुझाव देते हुए पत्र लिखिए।
- 4- 'समय का सदुपयोग' अथवा 'इंटरनेट का प्रभाव' विषय पर अनुच्छेद लिखें।
- 5- 'ट्वेल्थ फेल' (अनुराग पाठक) या 'कितने चौराहे' (फणीश्वर नाथ रेणु) उपन्यास पढ़ें और उसकी समीक्षा लिखें।
- *6- 'दैनिक भास्कर' अखबार का संपादकीय भाग रोज़ाना पढ़ें और एक पृष्ठ सुलेख लिखें

SUB- MATHS

1. Make a project on " POLYNOMIALS".
2. Represent on the number line : (i) $\sqrt{5}$, (ii) $\sqrt{7}$, (iii) $1+\sqrt{9.5}$, (iv) $\sqrt{7.28}$

3. If $a = 3 - 2\sqrt{2}$, find the value of $a^2 - \frac{1}{a^2}$.
4. Visualize the representation of 2.3222 on the number line.
5. What must be added to $2x^4 - 5x^3 + 2x^2 - x - 3$ so that the result is exactly divisible by $(x-2)$?
6. If $(x^3 + ax^2 + bx + 6)$ has $(x-2)$ as a factor and leaves a remainder 3 when divided by $(x-3)$, find the values of a and b .
7. Without actual division, show that $(x^3 - 3x^2 - 13x + 15)$ is exactly divisible by $(x^2 + 2x - 3)$.
8. Factorise: $\frac{1}{3}x^2 - 2x - 9$.
9. Factorise: $8(x + y)^3 - 27(x - y)^3$
10. If $a + b + c = 9$ and $a^2 + b^2 + c^2 = 35$, find the value of $(a^3 + b^3 + c^3 - 3abc)$.

SCIENCE

BIOLOGY:

1. PORT FOLIO

Prepare your portfolio in A-4 size paper with following details:-

Page 1:- Name -

Class -

Roll -

Your passport size photograph bottom left corner.

Page-2:- Labelled diagram of Plant cell.

Page 3:- Labelled diagram of Animal cell.

Page-4:- (i) My strength

(ii) My weakness

(iii) My hobby (with photograph)

Note: The portfolio should be colourful and should be art integrated.

2. Revision of chapter- The Fundamental Unit of Life
(For written/ oral test)

3. Comparative the Flora and Fauna of Jharkhand and Telangana state relating to type, influence of climate, soil, water etc. (use A-4 size paper).

CHEMISTRY

*** ART INTEGRATED PROJECT**

India's fuel consumption is growing faster than global average. India is world's third largest importer of crude oil after US and China. In the context of increasing demand and scarcity of petroleum, each state of our country is taking measures. Make a comparative study between **Jharkhand and Telangana** regarding their fuel consumption and ways to reduce **Carbon footprint**.



- **Make any one of the following for your science activity board on any topic of science/eco-friendly measures/sustainable development goals**
Collage/ wall hanging/pla-card/chart/paper craft/holders/multipurpose box/display frames etc

- **NCERT TEXT BOOK**
Complete the exercise questions of lesson Matter in our surrounding in homework copy.

PRACTICAL NOTE BOOK

Complete the lab notebook by noting down the activity details prescribed during lab activities.

PHYSICS:

Q1 A bus takes 8 hours to cover a distance of 320 km . What is the average speed of the bus ?

Q2 A car moves 100m due to east and then 25m due west. (a) What is the distance covered by the car? (b) What is its displacement?

Q3 A car moves through 20 km at a speed of 40 km/h, and the next 20 km at a speed of 60 km/h. Calculate its average speed.

Q4 The maximum speed of a train is 80 km/h . It takes 10 hours to cover a distance of 400 km. Find the ratio of its maximum speed to its average speed.

Q5. A person walks along the sides of a square field. Each side is 100 m long. What is the maximum magnitude of displacement of the person in any time interval?

Q6 Show that the area under the speed-time graph for a particle moving at a constant speed gives the distance covered by the particle.

SOCIAL SCIENCE

Economics

1) Prepare a research based project on the topic- ' Agricultural Practices in Ranchi'

Points to be taken care of - Size of land, Method of farming, Use of technology, Use of fertilizers, Sources of finance/ loan, Training for the farmers, Availability of education for their children etc. Use project file paper for the assignment. It should contain a beautifully designed cover page , index , acknowledgement, bibliography etc .It should be handwritten and must contain related pictures.

2) How can productivity be increased from the same piece of land? Explain the points.

3) Distinguish between working capital and fixed capital with suitable examples.

4) Art Integrated Activity

Draw the implements used by a farmer in a semi - urban area in the recent times.

History, Political Science And Geography

1. Prepare 40 objective (1 mark) questions each from these five chapters:

- a) French Revolution,
- b) India Size and Location,
- c) What is Democracy, Why Democracy,
- d) Physical features of India
- e) Constitutional Design

2. Prepare map work from these chapters:

India Size and Location:

- a) The island groups of India lying in the Arabian sea and the Bay of Bengal,
- b) The countries constituting Indian Subcontinent,
- c) The states through which the Tropic of Cancer passes,
- d) The strait separating Sri Lanka from India,
- e) The place situated on the three seas.

Physical features of India:

- a) Mountain Ranges: The Karakoram, The Zaskar, The Patkai Bum, The Jaintia, The Vindhya Range, The Aravali, The Cardamon hills,
 - b) The Indian desert,
 - c) The western Ghats.
 - d) Peaks: K2, KanchenJunga, Nanga Parbat, Anai Mudi, Maherdragiri.
3. Revise and learn the questions and topics from the chapters completed till now.
4. Prepare a file on Disaster Management taking any one of the following topic:
1- Flood, 2- Drought, 3- Earthquake, 4- Industrial Accidents

INFORMATION TECHNOLOGY

1. Draw and colour "Different Signs of Visual Communication" in A4 sheet only.
2. Prepare a document file using MS Word on "Various types of Barriers in Effective Communication". (submit A4 sheet only)
3. Prepare an art integrated activity on "Communication Skills including 7 C's of Effective Communication" in Power Point Presentation.(submit printout only)
4. Draw and colour "The Diagram of Communication Cycle" in A4 sheet only.
5. Prepare an art integrated activity on "Different causes of Stress" in Power Point Presentation.(submit printout only)

Note: Keep all above activities in a single file.