



DAY PUBLIC SCHOOL, BARHI

Affiliated to C.B.S.E.(10+2), New Delhi

**Summer
Vacation Home
Work
Class: X**

Dear Students

Learning is the beginning of wealth.

Learning is the beginning of health.

Learning is the beginning of spirituality.

Searching and learning is where the miracle process all begins.

.....*Jim Rohn*

Holiday is the time that we all eagerly wait for. We all make plans to enjoy, to relax and to empower ourselves during these gala days. This summer vacation the Holiday Homework so designed by the mentors of the school is a medium for you all to achieve the motto of “Fun and Learn”

The activity based assignments will foster curiosity, develop creativity, enhance knowledge and instill the joy of learning among you all. They will certainly help you discover a new you who is more enriched and confident and performs every action to perfection.

As it is well recognized that DAV Public School not only focuses on academics but lay equal importance on Co-scholastic Competencies also. The school also desires you to adhere to the following guidelines for a fulfilling break:

REMEMBER

- Neatness and presentation are common parameters for most of the activities assigned. Please maintain the quality of work done.
- Complete and submit the holiday homework according to the dates given. Note down these dates carefully as late submission after these dates is not acceptable and you will be losing the marks/grades for the same if you miss the date.
- Holiday homework will be assessed on certain parameters and marks/grade will be awarded accordingly.
- Make sure that all syllabus done till May must be revised thoroughly as you begin your Periodic I from July.
- To score well in your upcoming exams strike a balance between your leisure time and studies.
- Read NCERT chapters thoroughly and make optimum use of the practice manual.
- Highlight areas of doubt and clarify with the teacher after vacation.
- Refer different reference books for strengthening the conceptual knowledge.

BE A WONDERFUL HUMAN BEING: KEEP IN MIND TO

- Follow a schedule during holidays. Be a good time manager.
- Read newspapers daily and stay updated with current affairs.
- Do the homework independently, only ask for assistance from your parents or guardians
- Give time to pursue your hobby.
- Appreciate nature and go for “Nature Walks”, plant trees and spread the message of Nature Conservation”
- Remember to have a wide mouth container filled with water outside your house for the birds to get respite from the scorching heat.

- Pray to almighty daily and thank for the blissful life that you enjoy.
- Be a helping hand to your parents and learn the skill of shared responsibility.
- Do the work by following the guidelines given with each work or activity
- Always wish and welcome the guests with a smile.
- Spend time with your parents and grandparents, their rich experience will help you overcome challenges with ease.
- Minimise the use of gadgets
- Keep the home clean and mess free.
- After eating, keep the plate in your kitchen and rather love washing it yourself.
- Water the plants and rejoice the beauty of nature.

HEALTHY LIFESTYLE BE YOUR PRIORITY

- Give prime importance to your health. Eat lots of fruits, do exercise and get into yoga
- Pledge for “Eat Right -Less Sugar, Less Oil and Less Salt”
- Wash hands frequently, especially before and after meal.
- Avoid sharing of towel, handkerchief, brush with others.
- Trim off the nails and hair regularly.
- Drink a lot of liquid like water and other natural sources of water like tender coconut water, aam panna , lime water, Buttermilk etc.

REQUEST TO PARENTS

Summer vacation time is an opportunity to spend the quality time with your child and make him/her feel special of his unique identity.

So just spare sometime and do the following:

- As parents and teachers, we understand the importance of developing the habit of eating healthy food. This is the best time when children can enjoy the healthy food with the family. As you are aware that our students enjoy the **Fruit break** in the beginning of the day on daily basis in the school, during holidays also we want them to follow the same habit at home.
- Let your child watch some entertaining educational TV shows such as discovery kids, animal planet and make the learning interesting.
- Engage them to learn music/dance/theatre/ any other dance form to bring them close India’s Art & Culture.
- Talk about Omni presence of **God** and humility being developed with regular prayers and doing good deeds as to offer best prayer to the God. Take them some religious places.
- Let them feed the poor and share things with needy people with love, let them enjoy the **Art of Giving**.
- Watch some good movies with your ward on love, compassion, humanity, kindness, forgiveness etc.
- Talk about the importance of parents and elders. Have at least 4-5 meals together.

Remember

“Every action is important and every deed is vital.....”

Wishing all the students a joyful learning and Happy Holidays

Kind attention please

- The Online Classes shall remain suspended from 09.06.2021 to 20.06.2021 on account of Summer Vacation
- The school will reopen on 21st June 2021 i.e. Monday.
- The school office will remain OPEN during the summer vacation on all working days.
- Clear all kind of dues (if any) at the earliest to avoid late fine and further inconvenience.

NOTE: Holiday Homework will not be accepted after the dates assigned for each subject by the Academic Dept.

Subject: English

Subject Tr. Name: Dharmendra Kumar

Subject Tr. Contact No: 9693134036,8271495299

1. Questionnaire Making

How to do: Prepare 15 multiple choice questions & answers from the story a)

Longwalk to Freedom

b) His first Flight (NCERT Book)

Where to do: Summer Vacation Copy

Parameters: Accuracy, Content, Authentication

2. Analytical Writing

How to do: Write an analytical writing on COVID-19 cases in India since January, 2021 to May,2021.

Where to do: Summer Vacation Copy

Parameters: content, presentation, setting of a plot

3. Creation with Proverb

How to do: Describe any one of the following proverb in your own words. You should also add pictures to make it creative.

- ‘The pen is mightier than the sword’
- ‘No pain No gain
- ‘All’s well that ends well’

Where to do: Summer Vacation Copy

Parameters: Creativity, relevance, presentation

4. Make a PPT

How to do: Make a PPT of your own showcasing your love for English language

Where to do: Pendrive/ CD

Parameters: creativity, content, presentation

5. Being innovative with values

How to do: Create your own diary in which you will write daily about any one positive change which you will bring in yourself like being organized or being punctual etc (80-100 words)

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

Parameters: Creativity, Content, Authentication

Subject: Maths

Subject Tr. Name: Alok Kr Sinha

Subject Tr. Contact No: 9835350405

PROJECT WORK (in stick file)

1. Draw a concept map of the chapter "REAL NUMBERS" which can be treated as memorchart
2. Draw the graph for pair of linear equations showing each case for unique solutions, no solution & many solution by taking suitable examples.

CONCEPT BASED QUESTIONS

1. Use Euclid's division lemma to show that the square of any positive integer is either of the form $3m$ or $3m + 1$ for some integer m .
2. Express each number as a product of its prime factors:
(i) 140. ii. 156. iii. 3825. iv. 50005. v. 7429
3. Prove that $3 + 2\sqrt{5}$ is irrational
4. Check whether $6n$ can end with the digit 0 for any natural number n .
5. Find the HCF of 52 and 117 and express it in form $52x + 117y$.
6. Prove that $x^2 - x$ is divisible by 2 for all positive integer x .
7. If n is any prime number and a^2 is divisible by n , then n will also divide a . Justify.
8. If one zero of the polynomial $5z^2 + 13z - p$ is reciprocal of the other, then find p .
8. If the product of two zeroes of polynomial $2x^3 + 3x^2 - 5x - 6$ is 3, then find its third zero.
9. Find the polynomial of least degree which should be subtracted from the polynomial $x^4 + 2x^3 - 4x^2 + 6x - 3$ so that it is exactly divisible by $x^2 - x + 1$.
10. Is polynomial $y^4 + 4y^2 + 5$ have zeroes or not?
11. Write a quadratic polynomial, sum of whose zeroes is and product is 5.
12. Write the zeroes of the polynomial $x^2 + 2x + 1$.

13. If the zeroes of the polynomial $f(x) = x^3 - 12x^2 + 39x + a$ are in AP, find the value of a .

14. 10 men and 10 women can finish making pots in 8 days, while the 4 men and 6 women can finish it in 12 days. Find the time taken by the one man alone from that of one woman alone to finish the work.

15. A boat covers 14 kms in upstream and 20 kms downstream in 7 hours. Also it covers 22 kms upstream and 34 kms downstream in 10 hours. Find the speed of the boat in still water and of that the stream.

16. Draw the graph of $2x+y=6$ and $2x-y+2=0$. Shade the region bounded by these lines and x axis. Find the area of the shaded region

17. A number say z is exactly the four times the sum of its digits and twice the product of the digits. Find the numbers.

18. Solve graphically $4x-3y+4=0$, $4x+3y-20=0$

19. There are two points on a highway a, b . They are 70 km apart. An auto starts from A and another auto starts from B simultaneously. If they travel in the same direction, they meet in 7 hours, but if they travel towards each other they meet in 1 hour. Find how fast the two autos are.

20. The larger of two supplementary angles exceeds thrice the smaller by 20 degrees. Find them

Subject: Chemistry

Subject Tr. Name: Umesh Kumar Rana

Subject Tr. Contact No: 9123205471

1. You are provided with two containers made of copper and aluminium you are also provided with solution of dilute hydrochloric dilute nitric and zinc chloride and water in which of the above container can this solution be kept ?

2. A brown substance X on heating in air form a substance Y , When hydrogen gas is passed over heated Y , it again change back into X

a) Name the substance X and Y

b) Name the chemical process occurring during both the changes,

c) Write the chemical equation,

3. Explain why

a) Respiration is an exothermic reaction,

b) When blue salt of copper sulphate is heated it becomes colourless,

4. Why do we store silver chloride in dark coloured bottles ? Explain in brief

5. Why should not curd and sour substances be kept in container made up of brass and copper ?

6. Why does aqueous solution of an acid conduct electricity?

7. Name the chemicals used in the acid fire extinguisher and the gas evolved from it, when used

8. Which out of distilled water, tap water and sea water is the best conductor of electricity ?

9. A few drops of sulphuric acid are added to water before electrolysis why ?

10. Explain why is hydrochloric acid a strong acid and acetic acid a weak acid ?

How it can be verified?

Subject:PHYSICS

Subject Tr. Name:RANJEET KUMAR

Subject Tr. Contact No:9835339291 , 9122755699

1. Define the term volt.
2. How much energy is given to each coulomb of charge passing through a 6 volt battery.
3. On what factors does the resistance of a conductor depend ?
4. A wire of resistivity is pulled to double its length.what will be its new resistivity ?
5. Define ohm's law .
6. Write a mathematical expression for joule's law of heating.Name one device which works on this principle.
7. Which one is having lesser resistance : A 60w bulb or a 40w bulb ?
8. Why do copper or aluminium wires usually used for electricity transmission and distribution purpose.
9. Why is tungsten used for the filament in electric bulb ?
10. The resistance of a conductor is 1 ohm.What is meant by this statement?

Subject: Biology

Subject Tr. Name: Anil Kumar

Subject Tr. Contact No: 9162358758

Ques. 1. Draw respiratory system of human being and explain its parts.

Ques. 2. Learn and write the answer of the questions of the chapter ' life processes'.

Ques. 3. Name the types of plant hormones and write their functions.

Ques. 4. Define the following terms : Double circulation, hormone, translocation, lymph, sphygmomanometer and dialysis.

Ques.5.What are geotropism & phototropism?

Subject:History/Civics

Subject Tr. Name:Nirmal Prasad

Subject Tr. Contact No:7903027373

History:

Qs1. What steps did the French revolution take to create a sense of collective identity among the French people?

Qs2. Who were Marianne and Germania?

Qs3. Briefly explain the process of unification of Germany.

Civics:

Do exercise problems of chapter-1- Qs.1; 6; 7; and 8.
Qs. Describe any five features of federalism.

Subject: Economics

Subject Tr. Name: Birendra Tiwari

Subject Tr. Contact No: 8539984488

Qs.1.What is per capita income? Mention any two limitations of per capita income as an indicator of development.

Qs.2.“What may be development for one may not be development for the other.”Explain with a suitable example.

Qs.3.Differentiate between primary,secondary and tertiary sector

Qs.4.Differentiate between organized and unorganized sector.

Qs.5.Define:

*Infant mortality rate,Literacy rate,..Netatte

Subject: Geography

Subject Tr. Name: Mamta Singh

Subject Tr. Contact No: 9631474222

1)"In India some regions are rich in certain types of resources but deficient in some other resources."Do you agree with the statement? Support your answer with suitable examples..

2)Explain the classification of resources on the basis of status of development...

3)Provide a suitable classification for resources on the basis of ownership..Mention main features of such resources..

4)What is conservation?why is conservation of resources necessary?What are the views of Gandhiji about resource conservation??

5)What is soil erosion? Describe the steps to control soil erosion in hilly areas..

6)Why land is called important resource for us??What is land utilisation?Describe the land use pattern in India..

7)On the outline map of India,show the different soil types in India....

Subject: Sanskrit

Subject: संस्कृत

Subject Tr. Name: मिथिलेश कुमार

Subject Tr. Contact No: ९९५५४३३३०४

१. पाठ रतः षड् प्रयन्तं प्रश्नोत्तर गृहकार्य पुस्तकायां लिखतु।
२. देव लता फल भानु साधु मुनि राजन् शब्दरूपाणि लिखतु।
३. गम् पठ् हूं अस् दृश् जिघ् धातुरूपाणि पंच लकारेषु लिखतु।
४. पंच पंच वाक्यानि संस्कृत भाषायां लिखतु। (पंचेषु लकारेषु)
५. संख्यावाची शब्दाः एकतः शतं पर्यन्तं लिखतु।

Subject: Hindi

Subject: HINDI

Subject Tr. Name:AMIT KUMAR

Subject Tr. Contact No:9570028806

क्षितिज

सूरदास के पद के अर्थ , प्रश्नोत्तर लिखें और याद करें।

तुलसीदास के पद के अर्थ , प्रश्नोत्तर लिखें और याद करें।

नेताजी का चश्मा पाठ के प्रश्नोत्तर लिखें और याद करें।

बालगोबिन भगत पाठ के प्रश्नोत्तर लिखें और याद करें।

कृतिका

माता का अंचल पाठ के प्रश्नोत्तर लिखें और याद करें।

व्याकरण

'पर्यावरण संरक्षण' पर एक निबंध लिखें।

'जल ही जीवन है ' का विज्ञापन चार्ट पेपर करें।

Subject: I.T.

Subject Tr. Name: Dipak Sharan

Subject Tr. Contact No: +9122122226

Basic ICT Skill – II

1. **What is an Operating System**
2. **How Many types of Operating System?**
3. **Define Network Operating System.**
4. **Define Mobile Operating System.**
5. **Define Symbain Operating System.**
6. **Differentiate between file and folder**
7. **Write down the steps to create folder on desktop.**
8. **What is Primary Function on Network?**
9. **Bit (Binary Digit)**

A binary digit is logical 0 and 1 representing a passive or an active state of a component in an electric circuit.

Nibble:A group of 4 bits is called nibble.

Byte: A group of 8 bits is called byte. A byte is the smallest unit, which can represent a data item or a character.

Kilobyte (KB)

1 KB = 1024 Bytes

Megabyte (MB)

1 MB = 1024 KB

GigaByte (GB)

1 GB = 1024 MB

TeraByte (TB)

1 TB = 1024 GB

PetaByte (PB)

1 PB = 1024 TB

11. Similarities between Internet and Intranet

- Intranet uses the internet protocols such as TCP/IP and FTP.
- Intranet sites are accessible via the web browser in a similar way as websites in the internet. However, only members of Intranet network can access intranet hosted sites.
- In Intranet, own instant messengers can be used as similar to yahoo messenger/ gtalk over the internet.

12. Differences between Internet and Intranet

- Internet is general to PCs all over the world whereas Intranet is specific to few PCs.
- Internet provides a wider and better access to websites to a large population, whereas Intranet is restricted.
- Internet is not as safe as Intranet. Intranet can be safely privatized as per the need.

13. Network Card

Network card is a necessary component of a computer without which a computer cannot be connected over a network. It is also known as the network adapter or Network

Interface Card (NIC). Most branded computers have network card pre-installed. Network cards are of two types: Internal and External Network Cards.

14. Internal Network Cards

Motherboard has a slot for internal network card where it is to be inserted. Internal network cards are of two types in which the first type uses Peripheral Component Interconnect (PCI) connection, while the second type uses Industry Standard Architecture (ISA). Network cables are required to provide network access.

15. Universal Serial Bus (USB)

USB card is easy to use and connects via USB port. Computers automatically detect USB card and can install the drivers required to support the USB network card automatically.

