



D.A.V. Police Public School

(Under the direct control of D.A.V. College Managing Committee, New Delhi)
-educational, English Medium School (to be upgraded up to Senior Secondary)

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Summer Vacations Homework and Assignments

Class VIII HOMEWORK

Hindi : पुस्तक का नाम (ज्ञान सागर,अभ्यास सागर)

क . पाठ- 1. हम पंछी उन्मुक्त गगन के (ज्ञान सागर,अभ्यास सागर) पूरा याद करो।

पाठ 2. असल धन (ज्ञान सागर,अभ्यास सागर) पूरा याद करो।

ख. बीस सुलेख लिखो।

ग. तत्सम और तद्भव शब्दों से संबंधित चार्ट बनाओ।

Mathematics:

- Make a scrapbook the cover page of which should be designed using geometrical shapes.
- Complete your work with neat and legible handwriting.
- Do complete your fair notebook upto Chapter-2 (Page No. 1 to 49)

(A) General Instructions:

- Submit your work in a separate notebook.
- Practice Chapter - 1, 2 and 4

(B) Prepare a dictionary of 15 key words from the following chapters:

a) Square and square root

b) cube and cube root

(C) Make a paper foldable related to Chapter- 4 : – Direct and inverse variation

(D) Make a short Formula Notebook. (Use A4 or A3 size pastel sheet)

(E) Do the assignment in fair notebook.

General Science:

➤ **Chapter - Force and Pressure**

[This work has to be done in Notebook]

1. Define the following terms and give examples of each type of force:
 - Gravitational force
 - Frictional force
2. A dropper is kept in a beaker of water. When we press its bulb, the bubbles of air escape into water on releasing the bulb, water enters the dropper. The flow of water into the dropper is due to:
 - Pressure of air
 - Pressure of water
 - Gravitational pull of Earth
 - Shape of rubber bulb
3. What do you mean by net or resultant force? Find net force when two forces of magnitude 10N and 5N, act on a body in the same direction. Will the net force' direction changes when the forces act in the opposite direction?
4. How can you get maximum pressure with a minimum force? Name two appliances based on this fact.
5. Give two points of difference between the pressure exerted by solids and liquids.

6. In case of a load suspended from a spring while its other end is on a hook fixed to a wall. Identify the agent exerting the force and the object on which it acts. Also state the effect of the force.
7. Two forces F_1 and F_2 act on a body in opposite directions and if the body moves in direction of F_1 , then what can you conclude about the magnitude of F_1 and F_2 ?
8. Pressure at a certain depth h_1 in a river is P_1 and at another depth h_2 ($h_2 < h_1$) is P_2 . What do you conclude about the magnitude of P_1 and P_2 ?
9. Why don't we get crushed under the weight of the atmosphere?
10. Observe air bubble formed at the bottom of a glass filled with cold drink. What happens to its side as it reaches the surface. Explain.

➤ **Chapter – Cell and Microorganism**

[This work has to be done in Notebook]

L-1(Cell- Its Structure and function)	L-2(L-2(Microorganism-Friends or Foe)
<ul style="list-style-type: none"> • Cell and its discovery • The Cell-Variation in cell number, shape and size in living organisms • Parts of cell • Levels of organization in an organism • Comparison between plant and animal cell • Diagrams of plant cell, Animal Cell 	<ul style="list-style-type: none"> • Introduction • Types of micro organism • Viruses are unique • Where do microorganism live? • Role of microorganism in our life • Microorganism –The foes • Food poisoning • Food preservation

PROJECTS:

1. Make a list of food items which can be preserved by drying in the sun.
2. Take wool of different colors', some beads and a chart paper. Make a model of animal cell with these materials.

Social Science:

1. **Learn** L-1 (Resources: Utilization and Development), L-8 (The Modern Period), L-15 (Role of the Constitution)
2. Complete your book and notebook.
3. Learn all the chapters done.
4. Read two pages of your book daily and underline new words. Find out their meaning daily.
5. **Activity work – 1.** Prepare a project file on Six Fundamental Rights and Five Fundamental Duties.
6. Prepare a chart showing 'Save Water, Save Earth'.
7. **Life Skill Activity:**
 - i. In a corner of your balcony, keep two bowls
 - ii. Put grains or seeds in one and water in the other
 - iii. Watch the birds feed.

iv. Remember to replace the water every day and clean the bowls regularly.

v. Take snaps of these birds.

G.K: Book page 1 to 30. Learn and complete one page daily.

Sanskrit :

पाठ्यपुस्तक भाग क.

प्रथम पाठ: सुवचनानि

द्वितीय पाठ वसुधैव कुटुम्बकम्

तृतीय पाठ अहम् नदी अस्मि

उपर्युक्त पाठों की हिन्दी अनुवाद व अभ्यास कार्य लिखें व याद करो ।

व्याकरण भाग - इकारान्त पुल्लिंग शब्द रूप मुनिलिखना व याद करना।

उकारान्त पुल्लिंग शब्द रूप साधु लिखना व याद करना।

दृश् (देखना) धातु पृष्ठ संख्या 169 पर के पांचों लकार लिखना व याद करना।

क्त्वा प्रत्यय, उपसर्ग शब्दों को याद करना व लिखना।

सुवचनानि पाठ के श्लोकों को चार्ट पर लिखना।

Natik Shiksha: *आर्य समाज के दस नियम लिखने व याद करने।

*हमारे देश को स्वतन्त्र कराने में जिन देश भक्तों का महत्वपूर्ण योगदान रहा उनमें से किन्हीं चार के बारे में अपने विचार लिखें।

*आर्य समाज से सम्बंधित लिखवाए गए प्रश्नों को याद करो।

*स्वामी दयानंद के बारे में एक लेख लिखें। व याद करो।

*किन्हीं पांच महापुरुषों के बारे में जिन्हें आप अच्छे से जानते हो। अपने विचार व्यक्त कीजिए।

ASSIGNMENT

Subject: Hindi

प्रश्न 1. निम्नलिखित प्रश्नों के उत्तर दीजिए-

क. पक्षियों के क्या अरमान हैं?

ख.दौरे पर जाते समय दारा दूसरा घोड़ा क्यों रखता था ?

ग. शाह ने दारा को गवर्नर बनाकर क्यों भेजा?

घ. किस कारण पक्षियों के पंख टूट जाएंगे?

प्रश्न-2. नीचे दिए गए मुहावरों का अर्थ बताते हुए वाक्य प्रयोग करो-

कान भरना, आंखों में चमक आना,दंग रह जाना

प्रश्न-3. नीचे लिखे क्रिया शब्दों को शब्दकोश के क्रमानुसार लिखिए-

पाएंगे,बहता,भूले,बन,देख,डालो

प्रश्न 4. निम्नलिखित शब्दों में से तत्समऔर तद्भव शब्द अलग-अलग करो -

नासिका, पेड़,मोर, सूर्य

प्रश्न 5. निम्नलिखित शब्दों में 'र' के उचित रूप का प्रयोग कीजिए-

गाहक,केंद, भष्ट,कमचार

प्रश्न-6 जीवन मूल्य पर आधारित प्रश्न-

ईर्ष्या करना उचित है या अनुचित? क्यों?

Subject: Mathematics

Q1) How many non squares numbers lie between 102^2 and 103^2

Q2) Check if (5,12,13) is a pythagorean triplet or not? Verify also.

Q3) Write a Pythagorean triplet whose one member is 16

Q4) Find the least number which must be subtracted from 1255 to make it a perfect square? Also find square root of the perfect square obtained

Q5) Find greatest number of 4 digits which is a perfect square.

Q6) Find square root of 7 correct upto 3 decimal places.

Q7) A general wishing to draw his 64029 men in the form a square found that he had 20 men extra. Find the number of men in the front row.

- Q8) What is the smallest number by which 8640 must be divided so that quotient is a perfect cube
- Q9) Find the value of: $\sqrt[3]{216 \times (-125)}$
- Q10) Divide the number 26244 by the smallest number so that the quotient is a perfect cube. Also, find the cube root of the quotient
- Q11) Difference of two perfect cubes is 189. If the cube root of the smaller of the two numbers is 3, find the cube root of the larger number.
- Q12) Three numbers are in the ratio 2:3:4. The sum of their cubes is 0.334125. Find the numbers.
- Q13) Find the cube root of 5832 through estimation.
- Q14) A train 280 metre long is running at a speed of 42 km/hr. how much time will it take to pass a man standing on a platform?
- Q15) If 52 men can do a piece of work in 35 days. In how many days will 28 men complete the same work?
- Q16) Oranges cost Rs. 54 for three dozens in the super market. What is the cost of eight oranges?

Subject- General Science

Tick the correct option of the following.

- The longest cell in the human body is
(a) Blood Cell (b) Muscle Cell (c) Liver Cell (d) Nerve Cell
- Which of these cell will have cell wall around them?
(a) Cheek Cells (b) Nerve Cell (c) Onion Cell (d) Blood Cell
- Which of these is the smallest cell?
(a) RBC (b) Neuron (c) Mycoplasma (d) Egg
- What is the function of ribosome?
(a) Cellular respiration (b) Protein synthesis (c) Lipid synthesis (d) Cell division
- Malaria is caused by which of these?
(a) Bacteria (b) Virus (c) Fungi (d) Protozoa
- Which of the diseases can be spread by a dog's bite?
(a) Tetanus (b) Rabies (c) Dengue (d) Chikungunya

Short answer type questions.

- Define cell.
- What is a multicellular organism?
- Mitochondria are also known as powerhouse of the cell. Why?
- Name the organelle responsible for imparting green color to the plants? What is its function?
- What are the antibiotics? How are they produce?
- How does 'freezing' preserve food?
- Define microorganisms.

Subject: Social Science

Answer the following questions.

- What do you mean by environment?
- Mention the distribution of water in the Northern and Southern hemisphere.
- Why is the earth called the 'Blue Planet'?
- Explain with the help of an example how physical and biological components of the environment are interdependent.
- Define biosphere. Why is it important for us?
- What is the main function of an opposition party?
- What is mean by secularism?

8. How can people keep a check on their representatives

9. List the factors that create inequalities and hamper the success of democracy.

10. Why have the benefits of reservation not reached everyone? Suggest two steps that can ensure development of all sections of the Indian society.

Subject Sanskrit:

प्रश्न 1 निम्नलिखित गद्यांश का हिन्दी अनुवाद करें।

खगाः आकाशेऽत्र तत्र भ्रमन्ति। वृक्षेषु वानराः कुर्वन्ति। जनाः प्रसन्ना सन्ति। ते उद्यानेषु भ्रमन्ति धावन्ति च। बालाः अपि उद्यानेषु क्रीडन्ति। पशवः अपि प्रसन्ना सन्ति। ते वनेषु अत्र तत्र गच्छन्ति।

प्रश्न 2 आपक घर में उपयोग आने वाली वस्तुओं के नाम संस्कृत भाषा में लिखे।

प्रश्न 3 जन्तुशालाः (चिडियाघर) में रहने वाले जानवरों के नाम संस्कृत में लिखें याद करें।

प्रश्न 4 उचित शब्देन मेलनम् कुरुतः-

क. सिंह	चपलः
ख. अश्वः	दुग्धप्रियः
ग. गर्दभः	धावकः
घ. गजः	स्थूलः
ङ. कुक्कुरः	भारवाहकः
च. विडालः	पराक्रमी
छ. वानरः	स्वामिभक्त

प्रश्न 5 संस्कृत संख्या शब्दों (11-50) को चार्ट पर अंकित (लिखें) करो।

प्रश्न 6 *पठ् धातु के लट् व लृट् लकार का चार्ट बनाओं।