



**D.A.V CENTENARY PUBLIC
SCHOOL, CHANDER NAGAR
GHAZIABAD**





Dear Children,

Summer vacations are meant for lots of fun and enjoyment with family and friends. We have planned some interesting activities for you to enrich your learning experience.

We believe completion of assigned work is worth when we integrate discipline and good values with it. Set a time table, spend some time in physical exercises like yoga, dancing, aerobics or pursue any of your hobbies passionately, nurture some plants, help your elders and youngsters.

Do remember, Good books are your best friends in all times.



Multidisciplinary Project

Design a beautiful handmade multidisciplinary project file on the topic:
“Water: A precious resource”

General Instructions:

- Page 1: Cover page
- Page 2 should contain School name, Session, Heading, submitted by- (student name), roll no, class & Section
- Page 3 Index
- Page 4 Introduction / basic information about the topic
- Subject wise activities
- Last page: References
- Prepare a single file consisting of all the activities given in different subjects.
- The work must be done on A4 size ruled / plain sheets as per the requirement of the activity.

1.English:

Water-Themed Poetry

Objective: Write descriptive poems exploring the various aspects of water, such as its role in nature, its necessity for life, and the consequences of its scarcity.

Skills Developed: Poetic expression, vocabulary enhancement, and understanding of literary devices.

Outcome: To deepen the appreciation for poetry and the environment

2. Hindi:

1. जल है तो कल है विषय पर नारा लेखन
2. भविष्य हेतु जल संरक्षण विषय पर (A3 शीट पर) पोस्टर निर्माण

3. Mathematics:

Visit at least five families in your neighborhood and collect the following data :

1. Number of members living in the family
2. Amount of water consumed daily (in litres)

Family	No. of members in the family	Amount of water consumed daily in litres	Per person water consumption
A			
B			
C			
D			
E			

Q1. Complete the table given above.

Q2. Which family's per person water consumption is maximum and which family's per person water consumption is minimum?

Q3. Find the ratio of the per person water consumption of family A and family D.

Q4. Calculate the average of the per person water consumption of 5 families.

Q5. Represent the per person consumption data graphically.

4. Science:

Make a comic strip on water pollution and conservation of water.

Instructions:

1. Take A3 sheet.
2. Make a comic strip showing cartoons and dialogues for causes and consequences of water pollution. Also add the ways by which conservation of water can be done.

5. Social Studies:

. On a political map of India locate the following rivers and the cities situated on their banks. -

RIVER	CITY
Ganga	Varanasi
Ganga	Patna
Narmada	Jabalpur
Godavari	Nashik
Sabarmati	Ahmedabad

Q2. Suggest any three ways in which water can be conserved.

Q3. Mention three practices you follow at your home to save water.

Q4. Earth is also called a **watery planet**. Explain the distribution of water on our planet. (pg 13 of your textbook)

NOTE: Do all questions on ruled A-4 size sheets.

6. Sanskrit:

जलम्" इति विषये एकम् अनुच्छेदं लिखत।

अस्मिन् विषये द्वौ श्लोकौ अपि लिखत।

7. Computer:

Make a video on the topic- "saving water" 💧

send it to sandeepa@davcpscn.com

Mention your name, class and Roll No. in Subject line



Answer the following questions in English PNB :

Lesson 1: The Three Questions – Leo Tolstoy

1. List the three questions that the king wanted to find answers to.
(Write each question clearly.)
2. Summarize how the king tried to find the answers initially.
(What did he do before going to the hermit?)
3. Explain why the king was not satisfied with the answers he received from others.
(What made him reject their views?)

4. Describe the condition and behavior of the hermit when the king met him.
(How did the hermit respond to the king's questions?)
5. Recall the events that led to the king meeting the wounded man.
(How did the man arrive, and what was his condition?)
6. Interpret why the wounded man asked the king to forgive him.
(What was his past intention and what changed his mind?)
7. Discuss how the king unknowingly got answers to his three questions.
(How were the answers revealed through his actions?)
8. Identify the deeper message behind the hermit's silence and indirect teaching.
(Why didn't he answer directly?)
9. Reflect on what the story teaches about time, relationships, and actions.
(Give your personal interpretation.)
10. Evaluate whether the king truly changed by the end of the story.
(What shows his growth or transformation?)

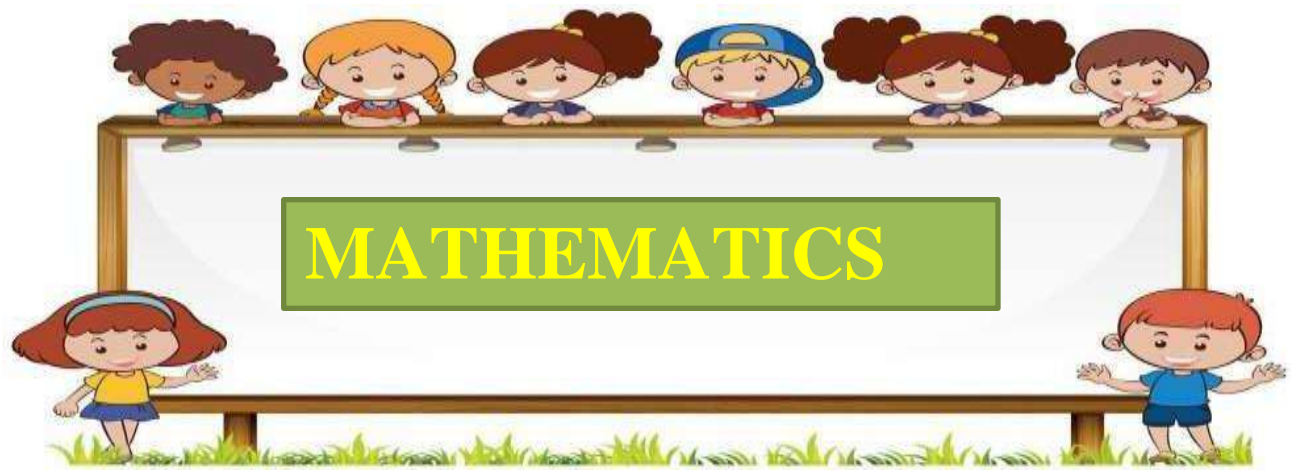
Lesson 2: Granny's Tree Climbing – Ruskin Bond

11. Describe Granny's love for trees in her younger and older years.
(How was she different from others of her age?)
12. Explain how the family reacted to Granny's climbing habits.
(What did they fear? What rules did they set?)
13. Narrate the incident when Granny got stuck in a tree.
(When did it happen and what was the result?)
14. Discuss how the tree-top house brought happiness to Granny.
(Why did she want it and how did she enjoy it?)
15. Analyze how Ruskin Bond celebrates Granny's spirit through the poem.
(What qualities of Granny stand out to you and why?)



नोट :- दिए गए सभी प्रश्न PNB उत्तरपुस्तिका में कीजिए । सभी प्रश्नों के उत्तर विस्तार पूर्वक (80-100 शब्दों में) लिखिए ।

- प्रश्न1. हम पंछी उन्मुक्त गगन कविता के आधार पर लिखिए कि पक्षी स्वतंत्र क्यों रहना चाहते हैं और स्वतंत्र रहकर क्या-क्या सुख प्राप्त करना चाहते हैं?
- प्रश्न2. ईरान का शाह दारा की किन विशेषताओं से प्रभावित था? विस्तार पूर्वक लिखिए।
- प्रश्न3. 'आश्रम के अतिथि और संस्मरण' पाठ में गाँधी जी के जीवन से जुड़ी घटनाओं से उनके स्वभाव की किन विशेषताओं का पता चलता है?
- प्रश्न4. मौलाना अबुल कलाम आज़ाद के लिए गांधीजी ने विशेष रूप से क्या तैयारी की? 'आश्रम के अतिथि और संस्मरण' पाठ के आधार पर लिखिए ।
- प्रश्न5. दरबारियों का दारा से ईर्ष्या करना उचित क्यों नहीं था ? असल धन पाठ के आधार पर लिखिए।
- प्रश्न6. 'हम पंछी उन्मुक्त गगन के' कविता में पक्षियों को स्वतंत्रता प्रिय है इस तथ्य के आधार पर बताइए आपको अपनी स्वतंत्रता क्यों प्रिय है? (कोई तीन)
- प्रश्न7. 'दोपहरी' कविता में गर्मी ने वृक्षों को किस प्रकार प्रभावित किया है?
- प्रश्न8. कवि ने 'हम पंछी उन्मुक्त गगन के' में पक्षियों की आकुल उड़ान में विघ्न न डालने की बात क्यों की है?
- प्रश्न9. पाठ 'आश्रम के अतिथि और संस्मरण' में नौजवान द्वारा क्या कहने पर गांधी जी को उसे समझाने को आवश्यकता हुई? गांधी जी ने उसे क्या समझाया ?
- प्रश्न10. 'असल धन' पाठ के आधार पर जीवन का असल धन क्या है? विस्तार से लिखिए ।
- प्रश्न11. 'हम पंछी उन्मुक्त गगन के' कविता में कवि ने किस प्रकार जीवन में स्वतंत्रता को सर्वोपरि सिद्ध किया है?
- प्रश्न12. 'दोपहरी' कविता में 'हो अकाल के ज्यों अवतार पंक्ति' किस संदर्भ में कही गई है और क्यों?
- प्रश्न13. 'दोपहरी' कविता में चिड़ियों और पालतू श्वान का उदाहरण किस उद्देश्य से दिया गया है?
- प्रश्न14. दारा ने उत्तरी राज्य में फैली अराजकता को दूर करने के लिए क्या-क्या उपाय किए?
- प्रश्न15. गाँधी जी ने छगनलाल की सार्वजनिक आलोचना क्यों की?



Task 1: Case Study Question

The Vande Bharat Express, also known as Train 18, is a semi-high speed day train introduced and operated by Indian Railways. It is a flagship project under the “Make in India” initiative and showcases India’s engineering and technological advancement. It is equipped with state-of-the-art passenger amenities such as bio-vacuum toilets, automatic doors, GPS-based passenger information systems, and onboard Wi-Fi. It contains 16 coaches and its total length is 400 m.



Q1 If this train takes 12 seconds to cross a pole, then what is the required speed in kilometre per hour?

Q2 Find the number of seconds taken to cross a tunnel of length 800 m.

Q3 If it takes 25 seconds to cross a bridge, what is the length of the bridge?

Q4. How much time will be required by the train to cross a man standing on a platform with a speed of 160 km/hr

Task 2: Poster – Maths in Art

Create a colourful and creative poster on an A4 size sheet titled Maths in Art. Use concepts like symmetry, tessellation, mandala art, or rangoli design to create a unique and artistic masterpiece that beautifully blends maths with creativity.

Task 3: Mathematical Comic Strip

Create a colourful and fun comic strip on an A4 size sheet based on any one of the following topics:

1. Direct Variation, 2. Inverse Variation 3. Speed, Distance and Time

Use characters, speech bubbles, and drawings to explain the concept in a creative and easy-

to-understand way.

Task 4: Creative Foldable on Math Concepts

Make a beautiful, colourful foldable in any shape of your choice based on Algebraic Identities and Parallel Lines. Use drawings, key points, and examples to make the concepts clear and creative!

Task 5: 3D Shape Nets Craft

Make the nets of a cube, cuboid, and cylinder, then cut and paste them neatly on an A4 size sheet. Use coloured papers and creative designs to make your work attractive and clear!

Task 6: Project on an Indian Mathematician

Make a project on any Indian mathematician of your choice. Paste a picture of him/her, and write a brief life history along with their contribution to mathematics. Use both sides of an A4 size sheet and present it neatly and creatively.

Task 7: Assignment

Q1 A sports teacher wants to arrange 6000 students in a field such that the number of rows is equal to number of columns. Find the number of rows if 71 were left out after arrangement.

Q2. The cost of levelling a square lawn at ₹2.50 per square metre is ₹13322.50. Find the cost of fencing the lawn at ₹5 per metre.

Q3. What least number should be added to 6012 to make it a perfect square. Find the square root of the new number obtained.

Q4. By what least number should 3528 be divided so that the quotient is a perfect square? Find the square root of the quotient so obtained.

Q5. Find the square root of $20/3$ correct up to three places of decimal.

Q6. Divide 88209 by the smallest number so that the quotient is a perfect cube. Also find the cube root of the quotient.

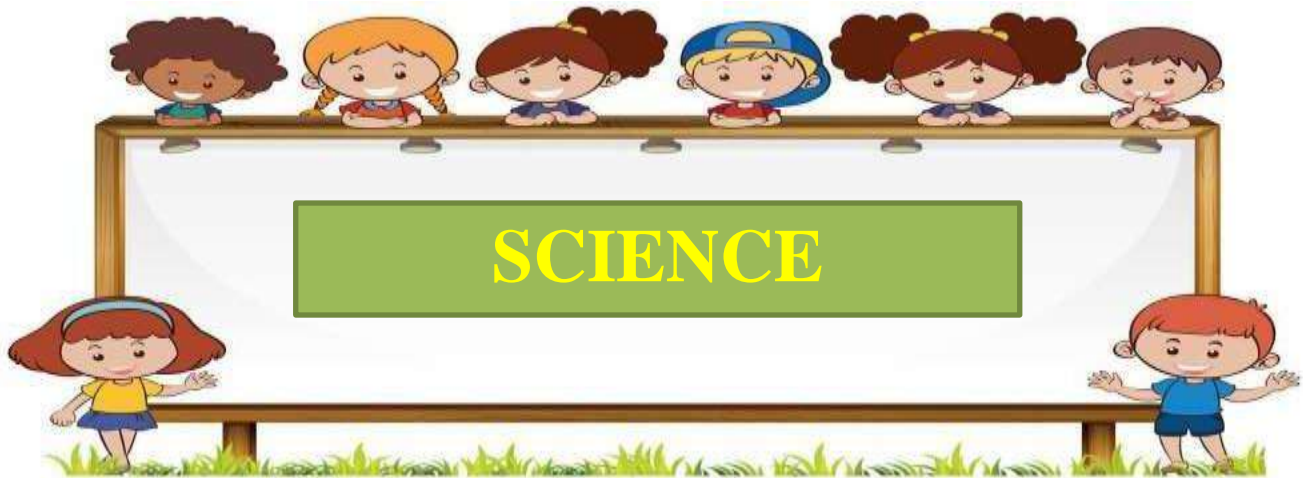
Q7. A car travels 60 km in 1hr 30 minutes. How long will it take to cover 100 km at the same speed.

Q8. 120 men had food provisions for 200 days. After 5 days, if 30 men left out. How long will the remaining food last?

Q9. In a hostel of 50 girls, there are food provisions for 40 days. If 30 more girls join the hostel, how long will these provisions last?

Q10. How long a train 120m long take to clear a platform 130 m long, if its speed is 50 km/hr.

Note:- Do the Assignment and case study question on A4 size ruled sheets. After completing all the work, arrange all the sheets together and submit your homework in a proper file. Make sure your file is well-organised and properly labelled with your name, class, and subject.



TASK 1- IDEA AND INNOVATION

1. Go through these link of inspire awards manak

<https://www.youtube.com/watch?v=lcqYVpqFJcg> and www.inspireawards-dst.gov.in/UserP/index.aspx then write about an innovative idea on the basis of which a model can be prepared. If idea got selected, you will get a certificate and a prize money of rupees 10,000/- to prepare the model. Write this idea on a plane A4 sheet/ruled sheet under the headings given below:

Heading:

- (a) Title of the idea- Should be Cathy and attractive but related to the idea.
- (b) Project Summary- Write about the model: what is the problem, how your idea solves that problem and application in real life/how it is useful for others

An example of how to write the idea summary is given below.

Example-

Title of the Project : Travelling bag with folding seats

Project Summary : Many a times travellers have to stand while waiting for a bus or train at the bus/train station as the number of seats available are few. The student has developed a travelling bag where a folding seat has been incorporated. This can be unfolded and used for sitting while waiting for the bus/train thereby eliminating the discomfort while standing for long time. It will be especially useful for ladies and elderly.

NOTE: This idea should be innovative, original (not copied from the internet), should be applicable in real life and have attractive title/ name.

TASK 2-ASSIGNMENT

Instruction- Solve worksheets on A-4 size ruled sheets

Chapter-1

Cell and its basic structure

Q1. Draw a diagram of plant cell and label the following

- (a) Control unit of the cell
- (b) Transport channel of the cell
- (c) Stores excess of water and waste product
- (d) Powerhouse of the cell

Q2. Read the following statement and write the appropriate term against each statement.

- a) I am like a policeman. I do not allow anything and everything to go in and out of cell. Who am I? _____ .
- b) I transfer characters from parent to off springs. Who am I? _____

Q3. Differentiate between two types of endoplasmic reticulum on the basis of their-

- (a) Appearance
- (b) function

Q4. Give reason-

- (a) Nerve cells possess a long fibre like structure.
- (b) The cell wall is an important covering in a plant cell.

Chapter-2 Microorganisms: Friends or Foes

Q1. Viruses differ from other microorganisms such as bacteria-Justify the statement.

Q2. Farmers prefer to grow peas and beans in nitrogen deficient soils. Why?

Q3. Unscramble the jumbled words underlined in the following statements:

- (i) Cells of our body produce santiidobe to fight pathogens.

(ii) Curbossulite is an air borne disease caused by a bacterium.

(iii) Bananas and mangoes can be preserved by vigndr.

(iv) Loiibng kills many micro-organisms.

Chapter-4

Force and Pressure

Q1. An archer shoots an arrow in the air horizontally. However, after moving some distance, the arrow falls to the ground.

(i) Name the initial force that sets the arrow in motion.

(ii) Explain why the arrow ultimately falls down.

(iii) Give any two examples each of contact and non-contact forces.

Q2. Write any two effects produced by a force acting on a body?

Q3. Give reason for the following

(a) It is difficult to pull a rubber sucker pressed on a surface.

(b) We do not get crushed under the large atmospheric pressure acting on our body.

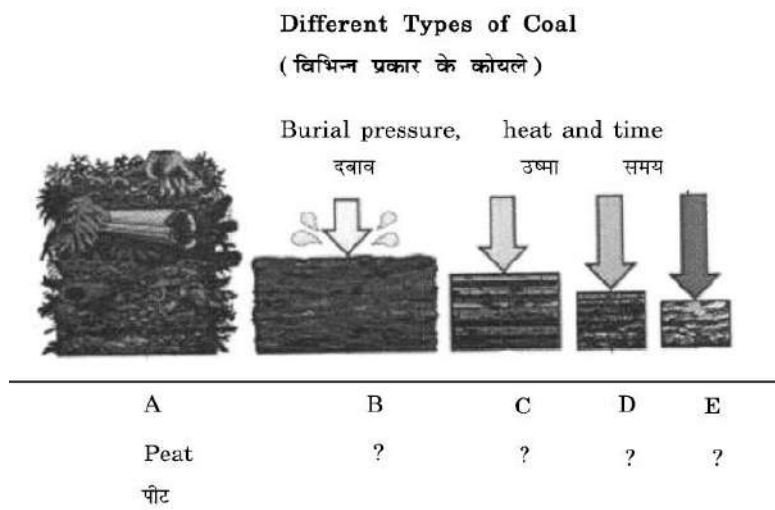
Chapter - 6

Sources of Energy

Q1. Observe the picture given below and answer the following questions-

(a) Name B, C, D and E.

(b) State (any) two points that differentiate between different types of coal.



Q2. (a) Define the term 'Destructive distillation'.

(b) Name the three products formed by destructive distillation of coal.

(c) Give the composition of water gas.

Q3. (a) Classify the various sources of energy on the basis of occurrence along with an example of each.

(b) 'Natural gas is considered a cleaner fuel.' Write any two reasons in support of this statement.

Q4. The material X is a fossil fuel. It is formed from the buried large land plants (vegetation) by a very slow process Y. X is heated in absence of air by the process called Z.

(i) Identify the material X and write its physical state availability naturally.

(ii) Name the processes Y and Z.

TASK 3: Revise chapter 1,4, 6 and 2 for the upcoming exams.



Write the answers on A4 size ruled sheets

Q1. a) On a political map of the world locate the following areas that receive heavy rainfall -

- A. Equatorial region of South America
- B. Equatorial region of Africa
- C. Equatorial region of Southeast Asia

b) On another political map of the world locate the following areas of low rainfall-

- A. Tropical desert of Sahara
- B. Tropical desert of Arabian Plateau
- C. Tropical desert of Central and Western Australia
- D. Tropical desert of Kalahari
- E. Central and western Eurasia
- F. Tropical desert of Central Asia
- G. Polar Areas
- H. Region of North America (page: 14&15 of the textbook)

Q2. Suppose you want to start a business. Which 6 factors will you keep in mind?

Q3. 'Resources are not merely ours, they also belong to the future generations.' Enumerate three things that must be done to conserve resources.

Q4. From your immediate surroundings list five biotic and five abiotic resources.

Q5. Explain the process of soil formation in deserts as well as in regions of heavy rainfall.

Q6. Gauri lives in a village in Uttarakhand while her cousin lives in a village in Rajasthan. Write at least one practice each, the villagers must follow to prevent soil erosion.

Q7. In front of the chief minister's office, a group of people is protesting against the construction of a new dam in the area. Help them by designing a poster highlighting the demerits of big dams.

Q8. With reference to Indian history, list three important events of the nineteenth century and three important incidents of the 20th century.

- Q8. Imagine you are reading a novel which is set in the early 20th century. Write any three pieces of information you will get about that period from that novel.
- Q9. What type of information do we get from the British documents and administrative reports?
- Q10. Why did India need to have a constitution?
- Q11. Mention any three values included in our Constitution by the Constituent Assembly.(Pg 185)
- Q12. Write any five purposes served by the constitution of India.
- Q13. Explain ' Universal Adult Franchise'. Give one major significance of this right.
- Q14. Read the given statements carefully and identify the value enshrined in our constitution.-
- i) India is against exploitation in forms.
- ii) There is no State Religion.
- iii) The citizens of the country elect representatives to run the government according to the wishes of the people.
- iv) Our government does not allow any other country to operate its military airbase from India.
- Q15. Mention the six fundamental rights given to us by our constitution.



- * पाठ्यपुस्तकात् संधिशब्दान् चित्वा लिखत।
- * पञ्च नीतिश्लोकान् लिखत।
- " वसुधैव कुटुम्बकम्" अस्य शीर्षकस्य आधारे अन्यां कथां लिखत ।।
- 136 सङ्ख्यातः 142 पर्यन्तं अपठितगद्यांशानाम् उत्तराणि लिखत।
- * पत्रलेखनं 143 - 150 पर्यन्तं पृष्ठानां संख्यां कुर्वन्तु।
- * चित्र वर्णनम् पृष्ठ संख्या 151-156 पर्यन्तम् कुर्वन्तु।
- * पाठ्यपुस्तकात् प्रत्ययायुक्त- पदानि चित्वा लिखत।
- *पाठ्यपुस्तकात् अव्ययपदानि चित्वा लिखत।
- * *उपसर्गयुक्तानि पदानि अपि पुस्तकात् चित्वा लिखत।
- * 1-50 पर्यन्तं संस्कृतसङ्ख्यां लिखन्तु।
- *
- नोट* - यह कार्य अलग कापी में करें।



Complete the 'Step by Step' Art Book up to page number 20. This will help you practice important art techniques like line control, shading, and coloring, and support the completion of our art syllabus.