

DAV PUBLIC SCHOOL, KOYLANAGAR, DHANBAD

SUMMER VACATION HOLIDAY HOMEWORK, SESSION 2026-27

CLASS -IX

संस्कृतम्

- 1) शब्दरूपाणि- बालक, कवि, साधु, पितृ, राजन्, भवत्, विद्वस, गुणिन्, लता, मति, नदी, मातृ, धेनु, फल, वारि, जगत, मनस, चक्षुष, तत, इदम् किं (त्रिषु लिङ्गेषु) अस्मद्, युष्मद् (लेखन व स्मरणं कार्यम्)।
- 2) धातुरूपाणि - क्री, नी, शक्, शा, अस्, कृ, श्रु, पिब् (पञ्चसु लकारेषु) लेखनं वा स्मरणं कार्यम्।
- 3) उपपदविभक्तयः- अभ्यासं व लेखनकार्यम्
- 4) पाठ - प्रथमः, द्वितीयः पाठः पाठाभ्यासः लेखनं वा स्मरणं कार्यम्।
- 5) आत्मनेपदी धातु - सेव्, लभ्, रूच्, मुद्, वृध् (लट् - लृट् - लोट् लकारेषु) लेखनं वा स्मरणं कार्यम्।

ENGLISH

- Q. Why is India called a land of diversity?
- Q. "Age is no barrier to learning". Explain the statement with reference to the chapter How I taught my grandmother to read.
- Q. Write a short note on the importance of national unity.
- Q. Describe the daily life of the pot makers.
- Q. What skills are required to make pots?
- Q. How does the chapter 'The pot maker ' highlight the dignity of man?
- Q. Imagine you met a pot maker. Write a short paragraph describing your conversation with him.
- Q. Why should traditional occupation be respected and preserved?
- Q. What challenges does the pot maker face in his profession?
- Q. What message does the story 'How I taught my grandmother to read ' give about education and determination?

Information Technology

- Q.1) Draw a neat labelled block diagram of a computer and explain the function of each unit.
- Q.2) Explain the elements of the communication cycle with examples.
- Q.3) Describe the 7 C's of effective communication. Explain each with suitable examples.
- Q.4) What is self-confidence? Write the qualities of a self-confident person.
- Q.5) Why are communication skills and self-confidence important for students in daily life?
(Students will prepare this work in their stick file.)

PHYSICS

1. The displacement of a moving in a given interval of time is zero. Would the distance travelled by the object also be zero? Justify your answer.
2. A girl walks along a straight path to drop a letter in a letter box and comes back to her initial position. Plot a displacement-time graph for the motion of the girl.
3. Derive the following Kinematic equations by graphical method:

$$v = u + at$$

$$s = ut + \frac{1}{2} at^2$$

$$v^2 - u^2 = 2as$$

4. An object starting from rest travels 20m in first 2s and 160m in next 4s.
What will be the velocity after 7s from the start?
5. Solve NCERT exercise questions of the chapter – Describing motion around us.

GEOGRAPHY

Prepare a pictorial chart/Diagrammatic representation of Landforms changes on it i.e. WEATHERING, EROSION, DEPOSITION and measures for the conservation of LANDFORMS.

Prepare it on a chart paper.

BIOLOGY

1. Build a 3-D model of plant or animal cell using household material- clay, cardboard, gelatine for cytoplasm, beads for organelles, biodegradable materials etc.
 2. Design the cell as city: - Nucleus= City hall, Mitochondria= Power plant, Ribosomes= Factories etc.
- For each building write 3 lines , what it does, what happens if it shuts down.

ECONOMICS

Answer the following questions in your words.

- 1) What do you mean by scarcity?
- 2) Describe three central problems with suitable examples.
- 3) What do you understand by Opportunity cost? Give suitable examples.

MATHEMATICS

1. Draw square root spiral
2. Draw the graph of the following and find the

Slope and y-intercept

(a) $y=3x+5$

(b) $2y=x-2$

(c) $y=4x$

3. Prove that

(a) square root of 2 is irrational.

(b) square root of 5 is irrational.

4. Define (a) Rational Number

(b) Irrational Number

(c) polynomial

5.Name the type of quadrilateral formed by the following vertices

(a) $(-1,-2), (1,0), (-1,2), (-3,0)$

(b) $(4,5), (7,6), (4,3), (1,2)$

(c) $(1,7), (4,2), (-1,-1), (-4,4)$.

HISTORY/CIVICS

Project on Loksabha election-2024

Project –handwritten

-illustrated

-on project file paper.

Write about every aspect of 2024 Loksabha elections from the announcement of date to declaration of result.

Point of reference-Dhanbad Loksabha constituency

A) Name and number of parties

B) Number of voters

C) Election manifesto of each party

D) Independent candidates (if any)

E) Slogans of different parties

F) Counting

G) Party that won election in Dhanbad