



**DAV ISPAT PUBLIC SCHOOL, SECTOR -2C**  
**BOKARO STEEL CITY, JHARKHAND**



**HOLIDAY HOMEWORK**

**CLASS – IX**

**DATE – 15.05.2025**

**SUBJECT – ENGLISH**

- 1) Learn word meanings and Questions and answers of-
  - Fiction-1 How I taught my grandmother to read
  - Poem- 1 The Brook
2. The Road not taken
- 2) Prepare a mind map of the poem – The Road Not Taken in A3 page (Theme, Structure, Message, Poetic devices, about the poet).
- 3) Write 2 words daily from your english book also write their english meaning, antonyms and synonyms in a separate thin copy.
- 4) Make an assignment in A4 page and submit it in stick file.
  - Write the biography of William Shakespeare ( about him, education, family background, famous works, etc) and also paste his picture.
  - Write a dialogue between two friends about planning a summer vacation trip( Not more than 80 words).

( Note : the assignment include- front page, acknowledgement, certificate, index, bibliography.

**SUBJECT – HINDI**

1. मुंशी प्रेमचंद की जीवनी को सचित्र लिखें।
2. साखियां और सबद के पाठ से दोहाकीसप्रसंग व्याख्या करें।
3. अर्थ के आधार पर वाक्य की भेदोंको उदाहरण के साथ लिखें।
4. पर्यावरण प्रदूषण विषय पर निबंध लिखें।
5. उपसर्ग और प्रत्यय की परिभाषा उदाहरण के साथ एक मॉडल बनाएं।
6. दो मित्रों के बीच संवाद लेखन लिखें।
7. कक्षा में प्रथम आने पर अपने पिताजी को ईमेल लिखें।  
(दिए गए कार्यों को पतली कॉपी में बनाकर लाएं।)

**SUBJECT – SANSKRIT**

1. संधि किसे कहते हैं? दीर्घ संधि और गुण संधि के पाँच - पाँच उदाहरणमॉडल के साथ बनाएं ।
- 2 . बालकः लता और फल शब्द रूपाणि पंचलकारेषु लिखन्तु ।
3. ममः विद्यालयःपंच वाक्यानि संस्कृतेन लिखत।

- 4 . प्रत्यय किसे कहते हैं। 10 क्त्वा प्रत्यय को लिखे ।
- 5 . अविवेकः परमापदां पदम् पाठस्य प्रश्नोत्तर लिखन्तु ।

### **SUBJECT – MATHEMATICS**

#### **CHAPTER 1: NUMBER SYSTEMS**

1. What is a rational number? Give three examples.
2. Define an irrational number. Provide two examples.
3. What is a real number?
4. Express 0.666... as a fraction in its simplest form.
5. Find three irrational numbers between 2 and 3.
6. Simplify:  $(\sqrt{2} + \sqrt{3})^2$ .
7. Rationalize the denominator of  $1/(3 + 2\sqrt{2})$ .

#### **CHAPTER 2: POLYNOMIALS.**

1. What is a polynomial? Give an example.
2. What is the degree of the polynomial  $3x^3 - 2x^2 + x - 5$ .
3. Find the remainder when  $x^2 + 2x + 3$  is divided by  $x + 1$ .
4. Factorize:  $x^2 - 4$ .
5. What is the Factor Theorem?
6. If  $p(x) = x^2 - 5x + 6$ , find  $p(2)$ .
7. Expanding each of the following, using all the suitable identities:
  - (i)  $(x+2y+4z)^2$
  - (ii)  $(2x-y+z)^2$
  - (iii)  $(-2x+3y+2z)^2$
8. Using the Factor Theorem to determine whether  $g(x)$  is a factor of  $p(x)$  in the following case  
 $p(x) = 2x^3 + x^2 - 2x - 1$ ,  $g(x) = x + 1$
9. Observe the value of the polynomial  $5x - 4x^2 + 3$  at  $x = 2$  and  $x = -1$ .
10. Factorise:  $27x^3 + y^3 + z^3 - 9xyz$ .
11. Factorise:  $64m^3 - 343n^3$
12. Factorise:  $8a^3 + b^3 + 12a^2b + 6ab^2$
13. Write and learn theory and formula related to Chapter 1 and 2.
14. Make a working model for chapter 2.
15. Prepare a project work for chapter 1.

### **SCIENCE**

#### **SUBJECT – PHYSICS**

#### **Week 1: 16/05 – 22/05**

- Topic: Concept of Motion & Types of Motion
1. Reading & Notes:
    - Read NCERT Chapter: Motion (Pages 1–3).
    - Note down definitions and examples of motion, rest, distance, displacement.
  2. Creative Learning Task:

- Create a comic strip or visual timeline showing the motion of a person going to school and back, marking displacement and distance.
3. Model/Project-Based Task:
- Build a simple cardboard model of different motions: linear, circular, and oscillatory (use threads, paper wheels, springs).

### **Week 2: 23/05 – 29/05**

- Topic: Speed, Velocity & Acceleration
4. Reading & Notes:
- Read NCERT (Pages 3–5).
  - Make a table comparing speed, velocity, and acceleration with formulas.
5. Creative Learning Task:
- Write a short poem or rap about speed and acceleration using real-life examples (e.g., car, cycle, train).
6. Model/Project-Based Task:
- Track a moving object (like a toy car or bicycle) at home. Record time and distance. Plot a distance-time graph.

### **Week 3: 30/05 – 05/06**

- Topic: Graphical Representation of Motion
7. Reading & Notes:
- Read NCERT (Pages 5–8).
  - Draw distance-time and velocity-time graphs for different types of motion.
8. Creative Learning Task:
- Design a “Graph Race” board game with different types of motion represented on the board.
9. Model/Project-Based Task:
- Create a working model using paper rolls and pulleys to show constant and accelerated motion.

### **Week 4: 06/06 – 14/06**

- Topic: Equations of Motion & Revision
10. Reading & Notes:
- Derive and solve equations of motion:  $v = u + at$ ,  $s = ut + \frac{1}{2} at^2$ ,  $v^2 = u^2 + 2as$
11. Creative Learning Task:
- Make a quiz or crossword puzzle on the Motion chapter to revise key terms.
12. Model/Project-Based Task:
- Create a short video (1–2 minutes) explaining one equation of motion using household objects or animations.

### **Submission Guidelines**

Prepare a project folder with:

- Weekly notes
- Photos of models and creative tasks
- Project reports and graphs
- Final quiz or video link (can be on pen drive or email)

### **SUBJECT – CHEMISTRY**

1. Prepare a model showing the molecular arrangement of the different states of matter.
2. Complete all the questions given in the textbook chapter "Matter in our surroundings".
3. Revise the chapters thoroughly.

### **SUBJECT – BIOLOGY**

1. Write all in text questions as well as Exercise questions of Chapter Cell- fundamental unit of life.....
2. Write four practical in your Biology practical file.
3. Make a model of any one: plant cell/ animal cell.

## **SUBJECT – SOCIAL SCIENCE**

**[NOTE:- Classwork notebook should be used for holiday homework.]**

### **CIVICS**

**(Chapter – 1, What is democracy and Why democracy)**

1. Write five main features of democracy?
2. Write the main five dirty tricks played by PRI-Party?
3. Write a short notes on Pakistan?
4. What is Legal framework order?
5. Case Study on China and Zimbabwe?

### **ECONOMICS**

**(Chapter – 1, The story of Village of Palampur )**

1. Write the main factors of production?
2. Distinguished between Farming and Non-farming Activities ?
3. What is Green revolution ? Write any five features .
4. Distinguished between Fixed capital and working capital?
5. Complete Multiple Cropping agricultural Project as we discussed in class.

### **History**

**(Chapter – 1, French Revolution)**

1. What were the main causes of French Revolution?
2. Define the term “Subsistence Crisis.”
3. Write a short note on Napoleon Bonaparte?
4. Write a short notes on Jacobin club?
5. Show the French Revolution event in flow chart?

### **Geography**

**(Chapter -1, Size and Location)**

1. Distinguished between Latitudes and Longitude?
  2. What is GMT?
  3. Write the state's which passes through tropic of Cancer?
  4. Why Arunachal Pradesh receives Sun ray earlier than Gujarat?
  5. Collect the information about silk route?
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