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# DAV PUBLIC SCHOOL, KOTKAPURA

*Where excellence is a tradition...*

(Affiliated to C.B.S.E., New Delhi, Affiliation No. 1630101)

# Happy Holidays

**Summer Vacation: 1.06.2025 (Sunday) to 30.06.2025 (Monday)**

**The school will reopen on: 01.07.2025 (Tuesday)**

## SUMMER BREAK ASSIGNMENT

### Class-IX

*“Holidays are not just for rest, but also a chance to grow, explore, and sharpen your skills beyond the classroom.”*

*Use this time wisely to:*

- ❖ *Strengthen academic understanding & discover new interests.*
- ❖ *Take care of your mental & physical health.*
- ❖ *Practice yoga, meditation, & a sport daily.*
- ❖ *Contribute meaningfully to family & society.*
- ❖ *Study early in the morning when your mind is fresh.*
- ❖ *Make a simple timetable with 4–5 hours of focused academic work daily.*
- ❖ *Ensure at least 7–8 hours of sleep.*
- ❖ *Eat healthy and stay hydrated.*
- ❖ *Limit screen time and avoid over use of social media.*
- ❖ *Help with household chores and learn basic life skills.*
- ❖ *Spend quality time with parents, grandparents & siblings.*
- ❖ *Volunteer in your community if possible (teach a child, clean a park/ surroundings).*
- ❖ *Try your hand at creative writing (poems, blogs, stories, journals).*
- ❖ *Explore photography, music, painting, DIY crafts or design.*
- ❖ *Watch inspiring documentaries or educational videos.*
- ❖ **USE A SEPARATE SINGLE NOTEBOOK FOR HOLIDAY HOMEWORK.**
- ❖ *Reflect weekly on what you learned and achieved.*
- ❖ *Set small goals & reward yourself when you meet them.*
- ❖ **REVISE SYLLABUS COVERED IN MONTH OF APRIL & MAY FOR UPCOMING PERIODIC-II EXAMINATION.**

*“Don't count the days – make the days count.”*

## ENGLISH

### 1. Being Innovative:

- Create your own diary and write about any one positive change that you will bring in yourself like being punctual or being organised on a daily basis. (Write any 5 positive changes that you bring in yourself. Why do you want to bring that change and what efforts do you make to implement it in your life. Write in not more than 50 words)
- 2. Write a diary entry describing the first day of online classes.
- 3. Write the differences between a Human teacher and a Mechanical teacher. Whom do you prefer and why? Draft your answer in about 100- 120 words.
- 4. Prepare a Comic Strip on The Adventures of Toto or The Lost Child. Make it on a colourful sheet.
- 5. You were giving an exam when the invigilator caught two of your classmates cheating. Describe the situation in 100-120 words.

## HINDI

- पाठ 'दुःख का अधिकार' तथा 'एवरेस्ट मेरी शिखर यात्रा', रहीम, रैदास का सार अपने शब्दों में लिखिए तथा इन पाठों में आए कठिन शब्दों के अर्थ लिखिए तथा याद कीजिए।
- हिंदी साहित्य को चार भागों में बांटा गया है : आदिकाल, भक्तिकाल, रीतिकाल तथा आधुनिक काल इन चारों कालों के कोई पांच कवियों अथवा लेखकों के नाम तथा उनकी रचनाएं लिखें तथा किसी एक लेखक अथवा कवि के विषय में प्रोजेक्ट तैयार करें। (यह प्रोजेक्ट आंतरिक मूल्यांकन का हिस्सा है जिसके पांच अंक होंगे)
- भारत तथा पाकिस्तान संबंध, बच्चों का बड़ों के प्रति कम होता सम्मान/ मोबाइल वरदान या अभिशाप अथवा अन्य किसी एक एक विषय पर एक अनुच्छेद, आर्टिकल अथवा कविता और संस्मरण की रचना कीजिए उत्तम प्रस्तुति करता को सम्मानित किया जाएगा।

## PUNJABI

1. ਆਪਣੇ ਪ੍ਰਾਂਤ ਦੇ ਮੁੱਖ ਮੰਤਰੀ ਨੂੰ ਵੱਧ ਰਹੇ ਭ੍ਰਿਸ਼ਟਾਚਾਰ ਨੂੰ ਨੱਥ ਪਾਉਣ ਲਈ ਇੱਕ ਪੱਤਰ ਲਿਖੋ।
2. ਕਿਸੇ ਪੰਜਾਬੀ ਅਖਬਾਰ ਦੇ ਸੰਪਾਦਕ ਨੂੰ ਸ਼ਹਿਰ ਵਿੱਚ ਵਧਦੀ ਹੋਈ ਗੁੰਡਾਗਰਦੀ ਦੀ ਸਮੱਸਿਆ ਬਾਰੇ ਪੱਤਰ ਲਿਖੋ।
3. ਤੁਸੀਂ ਆਪਣੇ ਜਨਮ ਦਿਨ ਨੂੰ ਸਾਢੇ ਢੰਗ ਨਾਲ ਮਨਾਉਣਾ ਚਾਹੁੰਦੇ ਹੋ ਇਸ ਸੰਬੰਧੀ ਆਪਣੇ ਵਿਚਾਰ ਦੱਸਦੇ ਹੋਏ ਆਪਣੇ ਪਿਤਾ ਜੀ ਨੂੰ ਚਿੱਠੀ ਲਿਖੋ।
4. ਤੁਹਾਡਾ ਦੋਸਤ ਹਰ ਵਕਤ ਮੋਬਾਇਲ ਫੋਨ 'ਤੇ ਹੀ ਲੱਗਾ ਰਹਿੰਦਾ ਹੈ ਇਸ ਤੋਂ ਵਰਜਦੇ ਹੋਏ ਸਮਝਾਉਣ ਲਈ ਇੱਕ ਪੱਤਰ ਲਿਖੋ।
5. ਇਲਾਕੇ ਦੇ ਐੱਸ.ਐੱਚ.ਓ ਨੂੰ ਤੁਹਾਡੀ ਕਲੇਨੀ ਵਿਚ ਹੋ ਰਹੀਆਂ ਚੋਰੀਆਂ ਅਤੇ ਹੋਰ ਅਪਰਾਧਾਂ ਨੂੰ ਰੋਕਣ ਲਈ ਪੱਤਰ ਲਿਖੋ।
6. ਓ, ਅ ਤੇ ਸ਼ੁਰੂ ਹੋਣ ਵਾਲੇ ਮੁਹਾਵਰਿਆਂ ਦੇ ਅਰਥ ਦੱਸ ਕੇ ਵਾਕ ਬਣਾਓ।
7. ਅਭਿਆਸ ਵਾਲੇ 1-5 ਪੈਰਾ ਰਚਨਾ ਦੇ ਪ੍ਰਸ਼ਨ/ਉੱਤਰ ਕਰੋ।
8. ਕੋਈ ਵੀ ਪੰਜ ਅਣਡਿੱਠੀਆਂ ਕਾਵਿ ਟੁਕੜੀਆਂ ਕਰੋ।
9. ਪੰਜਾਬੀ ਵਿਆਕਰਨ ਵਿੱਚ ਦਿੱਤੇ ਗਏ ਅਭਿਆਸ ਵਾਲੇ 1-5 ਚਿੱਤਰ ਕੱਟ ਕੇ ਆਪਣੀ ਕਾਪੀ 'ਤੇ ਲਗਾਓ ਅਤੇ ਉਹਨਾਂ ਬਾਰੇ ਵਰਣਨ 50-60 ਸ਼ਬਦਾਂ ਵਿੱਚ ਕਰੋ।

10. ਜਮਾਤ ਵਿਚ ਕਰਵਾਏ ਗਏ ਪਾਠਕ੍ਰਮ ਨੂੰ ਯਾਦ ਕਰਨਾ ।
11. ਰੇਲ ਨੰਬਰ ਇੱਕ ਤੋਂ ਵੀਹ 'ਵਹਿਮੀ ਤਾਇਆ', ਰੇਲ ਨੰਬਰ 21 ਤੋਂ 40 ਕਹਾਣੀ 'ਜਨਮ ਦਿਨ' ਦਾ ਦਿਮਾਗੀ ਨਕਸ਼ਾ ਬਣਾਉਣਗੇ।

## **MATHEMATICS**

- Do MCQ's, Assertion Reason and Case Based Questions of following chapters from RD Sharma. (Objective)
- Ch- 3 (Rationalisation)
- Ch-4 (Algebraic identities)
- Ch-5 (Factorization of algebraic expressions)
- Ch-6 (Factorization of polynomials)
- Ch-7 (Co-ordinate geometry)
- Revise chapter 1,2,3,4 full with examples from NCERT.
- Complete your F.N.B and it should be covered and beautifully maintained.

### **ACTIVITY:**

1. Construct a square root spiral on A4 sheet.
2. Draw a constructive and beautiful image using the concept of mirror image of chapter co-ordinate geometry.

## **SCIENCE**

### **Physics**

1. Do Rack-2B Subjective Questions of (Pg-39) of Reference book on FNB.

1. Solve Yard Stick Numerical (Pg-66) of Reference Book on FNB.

Prepare a project file and record the following activities in project file.

#### **Activity 1.**

Draw the following graphs in project file.

- a) Time graph when object is moving in uniform motion.
- b) Velocity time graph when object is moving with uniform acceleration.
- c) Velocity time graph when object is moving with uniform retardation.
- d) Velocity time graph when object is moving with non-uniform acceleration.
- e) Velocity time graph when object is moving with non-uniform retardation.
- f) Position time graph when object is at rest.
- g) Position time graph when object is in uniform motion.
- h) Position time graph when object is in non-uniform motion.

#### **Activity 2: Odometer Reading Observation**

##### **Objective:**

To understand how distance is measured and recorded using a vehicle's odometer.

##### **Instructions:**

1. Choose any vehicle used at home (bike, car, scooter, etc.).
2. Record the odometer reading at the end of each day for 5 consecutive days.
3. Calculate the distance travelled each day.
4. Present your data in a table.
5. Analyse which day had the most travel and why (add a short explanation).

## 6. Sample Table Format

Day	Odometer reading before Journey	Odometer reading after journey	Distance covered in km
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### Chemistry

Do NCERT Exemplar Questions of Page 43 (MCQs, Short Questions, Long Answer Questions) on FNB.

Chemistry Activity: Evaporation and Cooling – Then and Now

Objective:

To understand the concept of evaporation causing cooling through personal interviews and visual examples.

Instructions:

1. Interview your mother, grandparents, or any elder at home.
2. Ask them how they used to keep themselves and their homes cool during summer in their childhood days.
  - a. What traditional methods did they use?
  - b. What materials or tools were common?
3. Compare those with the modern methods of staying cool (like air conditioners, coolers, mist sprays, etc.).
4. Draw or collect pictures to show examples of:  
Traditional cooling techniques (e.g., wet curtains, earthen pots, khus mats)  
Modern cooling methods
5. Explain how evaporation causes cooling in each method, using simple science terms

### Biology

- Do MCQ, Assertion Reasons, and Case based questions of Ch- Cell – The fundamental unit of life from Reference Book on FNB.
- Do NCERT Exemplar Questions of Ch- Cell on FNB.
- Draw Diagrams of Plant cell, Animal cell, Nucleus, ER, Golgi Apparatus, Mitochondria, Chloroplast and along with their structure and Functions on FNB.
- Activity: Potato Osmometer

Objective: To Demonstrate the process of Osmosis.

Procedure: Take a large and fresh potato and slice the potato tuber into two equal halves with the help of a scalpel or a blade.

Peel off the outer skin and slice the halves into squares.

Scoop off the potato from the mid-region of the tuber to form a tiny cavity of a square or a circular shape.

The cavity prepared should have a minimum thickness at the base.

Now, fill up the cavity with the freshly prepared 20% sugar solution halfway.

Fix a pin in the cavity in a way that the mark is in the same line as the layer of the sucrose solution.

Set up the prepared osmometer in a Petri Dish/Beaker filled with water such that 75% of the potato osmometer is immersed in water.

The setup should be kept uninterrupted for up to 1 hour.

Keep a note of the sugar solution in the osmometer towards the end of the experiment

Lastly, carry out the same experiment with water in the cavity and the sucrose solution in the petri dish/beaker.



Do this activity and Write the Experiment, Procedure, observation and conclusion on Project File.

**Note:** Do All the Activities in One project File (Physics, Chemistry and Biology)

## **SOCIAL SCIENCE**

### **Project Work**

#### **Topic – Natural Vegetation**

A project on Natural Vegetation should explore the diverse plant life of India, including different types of forests, factors influencing biodiversity and the importance of conservation. Prepare project report on sub topics such as:

1. What is Natural Vegetation, Virgin Vegetation, factors Affecting vegetation. Ecosystem. Types of vegetation. Characteristics of Tropical rainforests, Tropical Deciduous Forests, Tropical thorn forests and scrubs, Montane forest, Mangrove forest, Medicinal plants, Conservation of forest etc.
2. Project Report must be prepared on Assignment Pages and must be attached with Decorative cover which is to be prepared by student itself.

#### **Work sheet**

1. Geography ,History, Pol. Science, Economics

Short and Long answer type questions (To be done on separate New note Book)

### **Geography**

#### **Chapter 2. Physical Features of India**

1. Write any five features of a Himalayan mountains
2. Describe three broad sections of Northern. Plains.
3. Describe the divisions of the Northern plains on the basis of the differences in the relief.
4. Describe the Deccan plateau.
5. Write a short note on corals.

### **History**

#### **Chapter 1 French Revolution**

1. Describe the circumstances leading to the outbreak of revolutionary protest in France.
2. Describe the legacy of French Revolution for the people of the world during the 19<sup>th</sup> and 20<sup>th</sup> century.
3. How would you explain the rise of Napoleon?
4. Draw up a list of democratic rights we enjoy today whose origins could be traced to the French Revolution.
5. Explain the political and economic causes of the. French Revolution.
6. Describe the period of Reign of terror.

### **Political Science**

#### **Chapter 2 Constitutional Design**

1. What was the policy of Apartheid? Explain.
2. What is the constitution? What does it explain?
3. What functions does the constitution perform?
4. Indian constitution is both rigid and flexible. Explain.
5. What is preamble to our constitution? What is its importance?
6. Why do we need a constitution?

7. Describe any five major factors which contributed to making of Indian constitution.

### Economics

#### Chapter 2 People as Resource

1. What do you understand by people as a resource?
2. What is the difference between economic activities and non-economic activities?
3. What is the difference between disguised unemployment and seasonal unemployment?
4. What part does health play in the individual's working life?

Note-1. All above sent questions must be learnt and written in neat handwriting in proper way.

#### 2. Chapter 3 Poverty As a challenge (Economics)

1. Chapter 3 Drainage (Geography) (students must read both chapters in proper way and find out important Difficult words, underline them and write the meaning along with them.

2. Map Work- Chapter 1 India Size and Location Geography

Locate and label All States of India on the Political Map of India and Paste it in FNB (Fair Note Book)

”Sustainability is the key to a thriving future”

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