D.A.V. POLICE PUBLIC SCHOOL FATEHABAD

CLASS- X

Holiday Homework Guidelines:-

"Success doesn't come from what you do occasionally, it comes from what you do consistently."
— Marie Forleo
Follow these simple steps for a stress-free holiday homework experience:
1. Be Neat: Write clearly and present your work well.
2. Be Original: Use your own ideas—avoid copying.
3. Be Smart: Divide your work over days, don't pile it up.
4. Be Creative: Add pictures, diagrams, or charts if suitable.
5. Be Organized: Label your work with name, class, and subject.
6. Be On Time: Submit all homework on the very first day after holidays.

ENGLISH :

READING SKILLS

Task: Choose any one prose or poem from First Flight or Footprints Without Feet. Suggested options:

- A Letter to God
- A Tiger in a Zoo
- The Thief's Story
- A Triumph of Surgery

Activity:

- Write a Character Sketch of your favourite character with mind map.(100-150 words).
- Write a diary entry as the character from another story describing a turning point in the story.
- Do practice of Reading Comprehension .

2. LISTENING SKILLS Literary Podcasts

Task: Listen to one of the following:

- Audio summary of Nelson Madela: A Long Walk to Freedom.
- Video/audio of a poem recitation (from your syllabus)
- Online grammar quiz videos (e.g., tenses, modals, Subject Verb Agreemnet)

Activity:

- Write a summary of what you listened to (100 words).
- Create a vocabulary bank: 10 new words, their meanings & use in original sentences.
- Do practice of grammar topics .

3. SPEAKING SKILLS Voice It Out

Task: Choose any 1 topic from the list and prepare a 2-minute speech:

- My Role Model
- A Day Without Technology
- India @100 My Dream Nation
- Importance of Emotional Well-being

Activity:

- Record a video of your speech and send at seeprani@davppsftb.org

 Use proper tone, gestures, and fluency.
 Paper Reading is not allowed.
Task: (to be submitted).
4. WRITING SKILLS Pen It With Purpose
Task : Portfolio
Prepare a Portfolio on A Letter to Editor, Placing Order, Enquiry letter, Subject Verb Agreement and Tenses
Note:Revise the complete syllabus of months April and May for Unit test 1

हिंदी :

क्षितिज गद्य खंड

- पाठ-10 'नेताजी का चश्मा'
- पाठ-11 'बाल गोबिनभगत'

काव्य खंड

पाठ-1 'सूरदास के पद'

व्याकरण

- वाच्य
- रचना के आधार पर वाक्य भेद
- अलंकार

रचनात्मक लेखन

- पत्र
- अनुच्छेद

पाठ्यक्रम का लिखित अभ्यास करके पुनरावृत्ति करें |

परियोजना कार्य –

(अनुक्रमांक 1 से 17)

नेता जी सुभाषचन्द्र बोस जी के जीवन का चित्र सहित विस्तार से वर्णन करें I

(अनुक्रमांक 18 से 35)

बालगोबिन भगत के चरित्र की विशेषताओं का वर्णन करते हुए ,भारतीय संस्कृति में संतों का स्थान तथा उनके महत्त्व का विस्तार से वर्णन करें |

MATHEMATICS :

- Activity on the following topics :
  (a) Real Numbers (Prime Factor Tree Activity)
  (b) Polynomial (Draw graph of any quadratic polynomial)
  (c) Pair of linear equations in two variables (Activity on Draw graph of two pairs of lines and shaded triangle formed by lines and x- axis)
  (d) Quadratic Equations (Prepare project on nature of roots)

- Learn and write square of 1 to 30 and also learn table from 1-30
- Solve Examples of all chapters - 1 to 5 .
- Solve given worksheet

(1) Find the least number of square tiles required to pave the ceiling of a room 15 m 17 cm long and 9 m 2 cm broad

(2) Find the smallest number which when divided by 28 and 32 leaves reminders 8 and 12 respectively.

(3) Is it possible to have two numbers whose HCF is 18 and LCM is 760 ?

(4) Find the greatest possible length which can be used to measure exactly the length 7 m , 3 m 85 cm and 12 m 95 cm .

(5) Prove that 5 - √3 is irrational number

(6) Find the zero's of the polynomial f(x) =$x^2 - 2$ and verify the relationship between Zeros and coefficients.

(7) Solve the Quadratic equations by factorisation method $\sqrt{3}x^2 + 8x + 4\sqrt{3}$

(8) If (x +a) is a factor of the polynomial $2x^2 + 2ax + 5x + 10$,then find value of a.

(9) If the zeros of the polynomial f (x) = $x^3 - 3x^2 + x + 1$ are (a- b) ,a and a+b ,then find a and b .

(10) If m and n are the Zeros of the cubic polynomial $2x^2 + 5x + k$ such that $m^2 + n^2 + mn = 21/4$,then find k.

(11) Find the common difference of the A.P. □ 1/p ,(1-p)/p ,(1-2p)/p □..

(12) Find the next term of A.P. -. √7 ,√28 ,√63 ,……..

(13) How many three digits numbers divisible by 9 ?

(14) Find the Sum of the following –(1-1/n)+(1-2/n)+(1-3/n)+⋯…… up to n th term.

(15) If the sum of first p th terms of an A.P. is (a p^2+b p),find its common difference .

(16) If the sum of the first p th terms of an A.P. is the same as the sum of its first q th terms , then show that the sum of its first (p + q) th terms is zeros

(17) Divide 32 into four parts which are the four terms of an AP such that the product of the first and fourth terms is to the product of the second and third terms as 7 : 15 .

(18) Find the value of x , if (5 x + 2) , (4 x □ 1) and (x + 2) are in AP

(19) If the p th terms of an AP is q and its q th term is p then prove that (p + q) th term is zero

(20) If the m th term of an AP be 1/n and its n th term be 1/m then show that its (m n) th term is one.

(21) In a given AP if p th term is q and the q th term is p then show that n th term is (p + q □ n).

(22) How many terms of the AP 54 , 51 , 48 □□. Should be taken so that their sum is 513 ? Explain double answer.

(23) Find the middle term of the AP - 213 , 205, 197 , □□□□□□.., 37 .

(24) Solve : $3^{x+2} + 3^{-x} = 10$

(25) Solve : $12abx^2 - (9a^2 - 8b^2)x - 6ab = 0$

(26) If the roots of the equations $(b-c)x^2+(c-a)x+(a-b)=0$, are equal, then prove that $2b=a+c$

(27) If a man walks 1 km/ hr faster than his usual speed then he cover a distance of 3 km in 15 minutes less time. Find its usual speed.

(28) Two water taps together can fill a tank in 75/8 hours . The tap of larger diameter takes 10 hours less than the smaller one to fill the tank separately . Find the time in which each tap can separately fill the tank.

(29) A takes 6 days less than the time taken by B to finish a piece of work. If both A and B together can finish it in 4 days , find the time taken by B to finish the work.

PHYSICS

1) Revise chapter-*10:*Light reflection and refraction
2) Make a Portfolio on ray diagrams .
3) Solve worksheets given.
4) Make a periscope using plane mirrors.
5) Do NCERT exercise questions of chapter *10.*

CHEMISTRY

1. Do NCERT Questions of chapter- 1(chemical reaction and equations).
2. Do NCERT Questions of chapter-2 (Acid,Base and Salt).
3. Revise all the activities of the chapter 1 and chapter 2 and write the chemical reactions involved.
4. Learn valency.
5. Make a chart of elements with atomic number and atomic mass (1 to 20)

BIOLOGY

Theme: Explore, Explain, Express

Objective:

To understand the four major life processes **Nutrition, Respiration, Transportation, and Excretion** in a fun, practical, and exploratory way.

Read the chapter life processes from book complete your class work on FNB and write the answers of following questions on your notebook.

- **Multiple Choice Questions (MCQs):**

1. Which of the following is not a life process?
   a) Respiration
   b) Reproduction
   c) Inheritance
   d) Excretion
2. The opening and closing of stomata are controlled by:
   a) Guard cells b) Xylem c) Phloem d) Chloroplast
3. The correct sequence of the four steps in nutrition is:
   a) Absorption → Assimilation → Ingestion → Egestion
   b) Ingestion → Digestion → Absorption → Egestion
   c) Digestion → Ingestion → Absorption → Egestion
   d) Ingestion → Absorption → Digestion → Egestion

4. Which enzyme is present in saliva?
   a) Pepsin
   b) Amylase
   c) Lipase
   d) Trypsin
5. The function of bile juice is to:
   a) Digest proteins
   b) Digest fats
   c) Emulsify fats
   d) Digest carbohydrates

- **Short Answer Type Questions:**

6. What are life processes? Name any four.
7. How do autotrophs obtain their nutrition?
8. Why is it necessary to separate oxygenated and deoxygenated blood in mammals and birds?
9. What is peristalsis? Where does it occur?
10. Differentiate between aerobic and anaerobic respiration with examples.

- **Long Answer Type Questions:**

11. Explain the process of nutrition in amoeba with the help of a diagram.
12. Describe the human respiratory system and explain how air enters the lungs.
13. How is water transported in plants? Mention the role of transpiration.
14. Write the functions of the following in the human digestive system:
    a) Liver
    b) Pancreas
    c) Small intestine
15. Explain double circulation in humans with a diagram.

- **Diagram-Based / Application-Based Questions:**

16. Draw a labeled diagram of the human alimentary canal.
17. Draw and label all the parts of human heart.
18. Explain the role of nephron in urine formation.
19. How does the stomatal pore open and close? Explain with the help of a diagram.
20. A plant is kept in dark for 24 hours and then exposed to sunlight. Which test can you perform to show that photosynthesis occurred? Describe the procedure.

➢ **Create a "Life Process Diary" (Handwritten)**

- Choose any **two life processes** (even roll numbers :nutrition and transportation, odd roll numbers: respiration and excretion)
- For **each process**, create a **2-page diary entry** from the point of view of a **body organ or cell**.
  Example: □A day in the life of a Red Blood Cell□ or □Diary of a Nephron (Kidney filter).□

Include:

- Where you live (organ/system)
- What your job is
- How you work during the day

- Challenges you face
- Fun facts

Social Science

Topics for Project Work (Choose Any One):

1. *Consumer Rights*
2. *Social Issues (e.g., child labour, gender inequality, poverty, caste discrimination, etc.)*
3. *Sustainable Development*

Project Guidelines:

- *The project should be handwritten on A4 size sheets or in a file.*
- *It must include relevant data, pictures, charts, and examples.*
- *Use bullet points, subheadings, and diagrams for clarity.*
- *Keep the project between 8-10 pages.*
- *Add a cover page with Name, Class, Roll Number, and Topic.*

Include the following sections:

- *Title Page*
- *Index*
- *Introduction*
- *Content (in bullet points or paragraphs)*
- *Case Study/Example*
- *Conclusion*
- *Bibliography (sources used)*

Prepare mind map of covered syllabus.

Revision of Unit Test
Geography-
Chapter 1-Resources and Development
Chapter 2-Forest and Wildlife Resources
Civics-
Chapter 1- Power Sharing
Chapter2- Federalism
History-
Chapter1- Nationalism in Europe
Economics
Chapter 1-Development
Chapter 2-Sectors of the Indian Economics

Home science

1. *Read and Learn Chapter 1(Play), Chapter 2(Features of Childhood), Chapter 3 (Features and Problems of Adolescence), Chapter 4(Features of Adulthood)*
2. *Complete Practical file work*
3. *Make a suitable play material for children (3to 5 years old child)*
4. *Make a portfolio on 'Time and Energy Management'*
5. *Prepare a Poster to create awareness on consumer education. (Use A3 size sheet)*

Punjabi

Reader :

- *ਪਾਠ ਇਕ ਕੁਲਫੀ, ਅੰਗ -ਸੰਗ, ਸਲੋਕ ਇੱਕ ਅਤੇ ਦੋ ਦੇ ਪ੍ਰਸ਼ਨ ਉੱਤਰ ਯਾਦ ਕਰੋ ।*

Activity :

- *ਆਪਣੇ ਦੋਸਤ ਜਾ ਸਹੇਲੀ ਦੀ ਤਸਵੀਰ ਚਿਪਕਾਓ ਅਤੇ ਉਸ ਦੇ ਗੁਣਾਂ ਬਾਰੇ ਲਿਖੋ।*
- *ਪੰਛੀਆਂ ਅਤੇ ਹੋਰ ਜੀਵਾਂ ਲਈ ਮਨ ਵਿੱਚ ਹਮਦਰਦੀ ਦੀ ਭਾਵਨਾ ਰੱਖੋ ਤੇ ਛੱਤ ਉੱਤੇ ਉਹਨਾਂ ਲਈ ਦਾਣੇ ਅਤੇ ਪਾਣੀ ਪਾਓ।*
- *ਆਪਣੀ ਪੱਕੀ ਕਾਪੀ ਤੇ ਰੈਡਕ੍ਰਾਸ ਦਾ ਨਿਸ਼ਾਨ ਬਣਾ ਕੇ ਉਸ ਵਿੱਚ ਰੰਗ ਭਰੋ ਅਤੇ ਉਸ ਬਾਰੇ ਕੁਝ ਪੰਕਤੀਆਂ ਲਿਖੋ।*
- *ਕਿਸੇ ਇੱਕ ਚਿੱਤਰ ਤੇ 50 ਸ਼ਬਦਾਂ ਵਿੱਚ ਚਿੱਤਰ ਵਰਨਣ ਕਰੋ।*
- *ਇਕ ਜੂਨ ਤੋਂ 30 ਜੂਨ ਤੱਕ ਦੀਆਂ ਦੋ ਮੁੱਖ ਖਬਰਾਂ ਰੋਜਾਨਾ ਆਪਣੀ ਕਾਪੀ ਵਿੱਚ ਲਿਖੋ।*

Grammar :

- *ਸਮਾਸੀ ਸ਼ਬਦ (ਹਰ ਕਿਸਮ ਦੇ) 1 ਤੋਂ 50, ਕ ਅਤੇ ਖ ਵਾਲੇ ਮੁਹਾਵਰੇ ਪੱਕੀ ਕਾਪੀ ਲਿਖੋ ।*
- *ਪੱਤਰ:- ਆਪਣੇ ਸਕੂਲ ਦੇ ਮੁੱਖ ਅਧਿਆਪਕ ਨੂੰ ਮਾਫੀ ਲਈ ਬਿਨੇ ਪੱਤਰ ਲਿਖੋ ।*
- *ਲੇਖ:- ਵੱਧਦੀ ਆਬਾਦੀ , ਸ੍ਰੀ ਗੁਰੂ ਤੇਗ ਬਹਾਦਰ ਜੀ ਦੀ ਤਸਵੀਰ ਬਣਾਓ / ਚਿਪਕਾਓ ਅਤੇ ਉਹਨਾਂ ਸਬੰਧੀ ਲੇਖ ਲਿਖੋ।*

SANSKRIT

शेमुषी:- पाठ 01 से 04 तक अभ्यास सहित याद करें।

व्याकरण:- स्वर, व्यंजन और विसर्ग सन्धि,समास व वाच्य परिवर्तन का अभ्यास करें।

(संस्कृत व्याकरण के किसी एक पाठ्यबिंदु पर पोर्टफोलियो बनाएं।)

IT

1. Make a poster to spread awareness about personal hygiene or environment care and take the print out of that
2. 2. Collect the images of yours and your family members and make a collage. Finally group all the images. Take the coloured print out of the page.
3. 3. Make a presentation different types of virus and anti virus. Take the print out of all the slides and make a file.(Mandatory for all)
4. Learn Unit-1 of both book.