

**SANT NISCHAL SINGH PUBLIC SCHOOL,  
YAMUNA NAGAR**



**HOLIDAYS ASSIGNMENT**

**SESSION (2025-26)**

**CLASS: XI**

*Dear Students*

*Holidays are eagerly anticipated as a time to unwind, rejuvenate, and explore new interests. To make your summer vacation both enjoyable and enriching, your mentors have thoughtfully crafted homework aligned with the school's vision of "Fun and Learn."*

*These art-integrated and activity-based assignments are designed to spark curiosity, nurture creativity, and deepen knowledge. They will inspire a love for learning and help you return as a more confident, capable, and well-rounded individual.*

Have a great



VaCaTion!

## RECREATIONAL ACTIVITIES

- ❖ ***“A healthy mind resides in a healthy body”***- pay attention to your health, go for morning and evening walks, avoid consumption of junk food, eat healthy and stay healthy.
- ❖ ***Meditation and Yoga:*** Meditation and yoga practices can help you relax, reduce stress, and improve mental focus. You can follow guided meditation videos or attend local yoga classes if available.
- ❖ ***Outdoor Recreation:*** Spend every day some time outdoors by engaging in activities like cycling, hiking, swimming, or simply enjoying picnics in nature. Fresh air and physical activity can promote relaxation and well-being.
- ❖ ***Open your mind*** for reading newspapers, novels, blogs and stories that will help you in increasing your ***vocabulary***.
- ❖ ***Indulge yourself into activities*** like cooking, singing, dancing aerobics, cycling , trekking, swimming, art and craft and gardening.
- ❖ ***Creative Art:*** Engage in creative art activities like painting, drawing, or crafting.
- ❖ ***Online Courses:*** You can enroll in online courses or virtual workshops that align with your academic interests or help you explore new subjects. Platforms like Coursera, Khan Academy, or Udemy offer a wide range of courses across various disciplines.
- ❖ ***Virtual Museum Tours:*** Many museums offer virtual tours, explore art, history, and science exhibits from the comfort of your homes. You can learn about different cultures, historical events, or scientific discoveries.



## GENERAL INSTRUCTIONS THAT ARE TO BE FOLLOWED

- ❖ Revise the syllabus thoroughly covered till May.
- ❖ Use Eco friendly material to prepare Models or Projects .
- ❖ Make the Project/ Models independently. Ask Parents for guidance and assistance only.
- ❖ Maintain the quality of work done.
- ❖ Write about your Project in a Project File( word limit –200 to 300 words)
- ❖ Minimize the use of gadgets.
- ❖ Develop a skill or hobby. Click photographs, record videos and note your achievements in your Portfolio File.

## ENGLISH

### BOOK REVIEW

#### THE BOOKS-

"The Alchemist" and "To Kill a Mockingbird"

Students are required to give books review and create a poster based on them

#### Book Review Guidelines

For Each Book ("The Alchemist" & "To Kill a Mockingbird"):

Students are required to answer the following questions to help them structure their review:

1. Title and Author:

What is the full title of the book and who is the author?

2. Plot Summary

What is the story about in brief?

Where and when is the story set?

3. Main Characters:

Who are the main characters?

Describe their personalities, growth, and relationships.

4. Themes:

What are the central themes of the book? (e.g., dreams, justice, courage, self-discovery)

5. Important Events / Turning Points:

What is one major event or turning point that changed the course of the story?

6. Personal Reflection:

What did you learn from the book?

Did you enjoy it? Why or why not?

7. Recommendation:

Would you recommend this book to your friends? Why?

#### 2. Poster Activity

You all will design a creative poster for each book. The poster should include:

1. Title and Author

2. A Key Quote from the book that reflects its theme or message



3. An Illustration (drawn or printed) representing an important scene, character, or symbol
4. One-Word Theme/Message (e.g., “Courage”, “Destiny”, “Justice”)
5. Brief Character Sketch or Plot Highlight (2–3 sentences)

**Roll Number 1-10**

Topic: Exploring Emotions Through the Movie “Inside Out”

Instructions: Watch the animated film Inside Out (2015) and complete the following creative and written tasks. This activity will help you better understand emotional intelligence, empathy, and self awareness.

**Objective**

To explore and reflect upon human emotions through creative expression and critical thinking, using the film Inside Out as a learning tool.

**Roll Number 11-20**

**Part A: Creative Task – Poster Making**

Prepare a visually appealing poster on the theme:

“Discovering Emotions with Inside Out”

Your poster should include:

Illustrations or printed pictures of the five main emotions: Joy, Sadness, Fear, Anger, and Disgust

A short description or a quote from each character

A creative title and a central message or moral of the film

Neat colouring, organization, and thoughtful presentation is must.

**Note: Use A3 or A4 size sheet. Hand-drawn or printed visuals are allowed.**

**Part B: Written Assignment – Reflective Questions**

**Answer the following questions in your notebook or on ruled sheets. Use full sentences and give thoughtful responses.**

1. Who are the five core emotions in the movie? Describe their personalities briefly.
2. What are “Core Memories” and how do they influence Riley’s personality?
3. How does the film show the importance of both joy and sadness in life?
4. Describe how Riley’s emotions react when she moves to a new city.
5. What happens when Joy and Sadness get lost? What impact does this have on Riley?
6. How do Riley’s “Personality Islands” change by the end of the movie?
7. Which scene from the movie did you find the most touching or meaningful? Explain why.
8. What message does Inside Out give about emotions and mental well-being?

9. Which emotion do you personally relate to the most? Give reasons.

10. If you could add a new emotion to Riley's mind, what would it be and why?

Presentation: Ensure neat handwriting and creative design.

**Roll Number 21 onwards**

Write a debate on the topic : " Are Media Portrayals worsening India Pakistan relations?"

## PHYSICS

**PREPARE A WORKING MODEL ON THE FOLLOWING TOPIC:**

**Name of project**

**Roll no.**

Bernoulli's Principle-

1,9,17,25,33

Hooke's Law-

2,10,18,26,34

Properties Of Fluids And Solids-

3,11,19,27,35

Surface Tension-

4,12,20,28,36

Electricity And Magnetism-

5,13,21,29,37

Renewable Sources Of Energy. -

6,14,22,30,38

Project Using Alarm -

7,15,23,31,39

## CHEMISTRY

1. Project Title: Planet Vs Plastics -Investigating Impact ( RollNo- 1 to 13)

Watch the documentaries on Plastic and explore the multifaceted issue of plastic pollution, analyzing its impacts on water bodies, human health, and wildlife, while evaluating government policies. DO internet-based research and critically analyze the situation of India, USA, UK & Singapore around the following topics

Assignment Overview

1 Trace the historical development of plastic packaging

2 Examine the impacts of plastic pollution on human health and wildlife

3. Analyse government policies and the Global Plastic Treaty

Each group Shall take up an area and after research, shall present their reflections in form of PowerPoint presentation (PPT)

Documentaries to watch:

<https://youtu.be/iO3SA4YyEYU?si=YcR3PQ4RvqAURdI>

<https://youtu.be/9GMbRG9CZJw?si=Q2WrHiRUwIDMzzKa>

<https://youtu.be/IA9O9YUbQew?si=C3Kvwisd4-f8kGHr>

<https://youtu.be/IA9O9YUbQew?si=C3Kvwisd4-f8kGHr>

2. "Meet the Element" Profile: (Roll No.- 14-26)

Choose an element from the periodic table and create a profile for it, as if it were a person. Include:

\* Name: The element's name and symbol.

\* "Date of Birth": When it was discovered.

\* "Family": Its group and period in the periodic table.

\* Characteristics: Its physical and chemical properties.

\* "Uses": How it is used in everyday life.

\* Include a "picture" ( a Bohr model or a creative visual representation).

3. The Chemistry of Sugar Production in Haryana: (Roll No. 27 to 39)

Explore the chemical processes involved in extracting sugar from sugarcane, a major agricultural product in Haryana. Investigate and write report on the different stages, byproducts, and potential for value addition.

4. The Chemistry of Paper Manufacturing in Yamuna Nagar: Roll No. - (40 to 51)

Research and write report on the chemical processes involved in paper production, a significant industry in your region. Investigate the raw materials used, the chemical reactions, and waste management practices.

## MATHS

**Roll No. 1 to 5:-** Make a project report/working model on the topic: Golden rectangle and Golden ratio and their relationship with some other mathematical concepts.

**Roll No. 6 to 10:-** Make a project report/working model on the topic: Application of Geometry in day-to-day life.

**Roll No. 11 to 15:-** Make a project report/working model on the topic: Application of Algebra in day-to-day life.

**Roll No. 16 to 20:-** Make a project report/working model on the topic: Application of Mensuration in day-to-day life.

**Roll No. 21 to 25:-** Make a project report/working model on the topic: Development of Number Systems with their needs.

**Roll No. 26 to 30:-** Make a project report/working model on the topic:  $\pi$  - WORLD'S MOST MYSTERIOUS NUMBER.

**Roll No. 31 to 35:-** Make a project report/ working model on the topic: Set operations by using Venn diagrams. **Roll No. 36 to 40:-** Make a project report/working model on the topic: To identify a relation and function.

**Roll No. 41 onwards:-** Make a project report/working model on the topic: Relation between degree measure and the radian measure of an angle.

## APPLIED MATHS

**Make a project report/working model by choosing any one of the topics mentioned below:**

- i) Use of prime numbers in coding and decoding of messages.
- ii) Prime numbers and divisibility rules.
- iii) Logarithms for financial calculations such as interest, present value, future value, profit/loss etc. with large values).
- iv) Comparing sets of Natural numbers, rational numbers, real numbers and others.
- v) Use of Venn diagram in solving practical problems.
- vi) Fibonacci sequence: Its' history and presence in nature.
- vii) Prepare a questionnaire to collect information about money spent by your friends in a month on activities like travelling, movies, recharging of the mobiles, etc. and draw interesting conclusions.
- viii) Check out the local newspaper and cut out examples of information depicted by graphs. Draw your own conclusions from the graph and compare it with the analysis given in the report.
- ix) Analysis of population migration data – positive and negative influence on urbanization
- x) Investigating Graphs of functions for their properties

# BIOLOGY

1. Prepare the project report on the assigned topic.

- **Roll No- 1-5** The role of micro organism in everyday life
- **Roll No- 6-10** Impact of plastic pollution on local ecosystem
- **Roll No- 11-15** Review of traditional medicinal plant in your local area
- **Roll No- 16 -20** Science behind common food preservation technique

2. Prepare the working model of biological concept. You can use the following ideas mentioned below:

- Roll No 1-2 Bacteriophage
- Roll No. 3-4 DNA
- Roll No. 5-6 HIV virus
- Roll No 7-8 Hemodialysis ● Roll No 9-10 Reflex arc
- Roll No 11-12 Fluid mosaic model of plasma membrane
- Roll No 13-14 Mitosis
- Roll No 15-16 Meiosis
- Roll No 17-18 Cellular respiration
- Roll No 19 -20 Nephron

**Note- You can use any other innovative idea for making the model.**

# ACCOUNTANCY

Roll no 1-10 prepare project Report on Gst( types of gst, things which are exempted, 2 practical questions)

Roll no 11-20 you have to collect original source documents from market and prepare project file with definition.

Roll no 21-30 prepare a chart on basic accounting terms

Roll no 31-40 prepare accounting cycle on thermal sheet

Roll no 40 onwards write classification of accounts in details on chart

# BUSINESS STUDIES

**Solve case studies given in back exercise from text book of chapters covered in class.**

Roll No (1-7)

Prepare project on formation of company including it's working, members and various functions by correlating with live examples.

Roll No (8-14)

Prepare project report on any two companies who have entered into partnership showing its working, types of partners and functions performed by partners.

Roll No (15-21)

Prepare project report on working of private and public company by taking real life examples.



Roll No (24-28)

Prepare project report on working of malls by taking real life examples.

Roll No (29-34)

Prepare project report on working of departmental stores by giving real life examples.

## ECONOMICS

### Project Report Assignment

Roll no. (1-20)

Topics - Production function and Elasticity of demand

Roll no. (21-45)

Topics - PPC and Elasticity of demand

**Following list of Project research work with the help of economic parameters.**

Bajaj Finance

Shopping Malls

Consumer Income analysis.

## HINDI

**निम्नलिखित में से किसी एक विषय पर 15 से 20 पृष्ठों की सचित्र प्रोजेक्ट फाइल बनाएं।**

1. मुंशी प्रेमचंद का जीवन परिचय और उनकी रचनाएं
2. कबीर दास जी का जीवन परिचय और उनकी शिक्षाएं
3. अंतरिक्ष में भारत के बढ़ते कदम
4. ऑपरेशन सिंदूर

**\* कक्षा में करवाए गए पाठ्यक्रम की दोहराई करें ।**

**निम्नलिखित विषयों में से 2 विषयों पर रचनात्मक लेख लिखिए :**

1. मेले की सैर
2. नदी किनारे एक शाम

3. परीक्षा से पहले
- 4 जब आंधी आई
5. एक दिन बिजली न आई
- 6.जीवन की अविस्मरणीय घटना

**निम्नलिखित पत्रों में से कोई दो पत्र लिखो:-**

- 1.भारत सरकार के शिक्षा मंत्रालय की ओर से महाराष्ट्र सरकार को नई शिक्षा नीति लागू करने के लिए पत्र।
2. उपायुक्त सिरसा की ओर से मुख्य सचिव हरियाणा सरकार को एक पत्र लिखकर बाढ़ पीड़ितों की सहायता के लिए अनुरोध करें ।
3. उद्योग मंत्रालय की ओर से हिमाचल सरकार के उद्योग सचिव को राज्य में उद्योग धंधों को प्रोत्साहित करने के लिए पत्र लिखें ।
- 4..क्षेत्र में मलेरिया फैलने की संभावना को देखते हुए स्वास्थ्य अधिकारी को पत्र लिखें ।
- 5..अपने नगर के जलापूर्ति अधिकारी को पर्याप्त और नियमित रूप से पानी न मिलने की शिकायत करते हुए पत्र लिखें ।
6. अपने मोहल्ले में वर्षा के कारण उत्पन्न हुए जल भराव की समस्या की ओर ध्यान आकर्षित करने के लिए नगर पालिका अधिकारी को पत्र लिखें।

## **POL. SCIENCE**

Roll no 1 to 7

Design Election Campaign Poster for a fictional Political Party or Candidate

Roll no 8 to 15

Make a list of slogans coined by different Political Parties of India.Also draw symbols of Political Parties associated with each Slogan.

Project File Compulsory for all

Prepare a handwritten Project file on the Topic

Making of Indian Constitution

OR Elections in India

## **HISTORY**

1- Prepare a handwritten Project File Consisting 15- 20 pages on the topic  
"MESOPOTAMIAN CIVILIZATION"

2 - Roll no. 1-10 - Prepare a PPT on the topic "Roman Empire"

3 - Roll no. 11 - 20 - Use clay to make a flat tablet then use a pencil or stick to draw shapes or lines like the mesopotamian did with cunieform writing .

Activity - Try writing your name in your own made up symbol.

# COMPUTER SCIENCE

## Instructions:

1. Complete all questions in your computer notebook.
2. Submit the work on the first day after the holidays.
3. Neatly label sections and write answers in your own words.

## Part A: Theory & Research

### 1. Computer Basics:

- (i) Define and differentiate: hardware, software, system software, application software.
- (ii) Explain the role of the Operating System.
- (iii) Write short notes on: compiler, interpreter, and assembler.

### 2. Number Systems:

Convert the following:

- (i)  $(10101)_2$  to Decimal
- (ii)  $(59)_{10}$  to Binary
- (iii)  $(2F)_{16}$  to Decimal
- (iv)  $(73)_{10}$  to Octal
- (v) Solve: Add  $(1011)_2$  and  $(1101)_2$ . Show all steps.

## Part B: Python Programming

### 3. Python Basics:

Write a Python program to:

- (i) Display "Happy Holidays!" message.
- (ii) Add two numbers entered by the user.
- (iii) Convert temperature from Celsius to Fahrenheit.

Write examples of:

1. Keyword
2. Identifier
3. Integer and float literals
4. Operator (any 3 types)
5. Flow of Control:

1. Write a Python program to check if a number is even or odd.
2. Write a program to print numbers from 1 to 10 using a loop.

## Part C: Creative

### 6. Project (Choose one):

- (i) Make a chart showing various types of software and their examples.
- (ii) Create a Python "Calculator" program (addition, subtraction, multiplication, division).

## Part D: Application & Logical Thinking

### 7. Algorithm & Flowchart:

Write the algorithm and draw a flowchart for the following:

- Finding the greatest of 3 numbers.
- Calculating the factorial of a number.
- Checking if a number is prime.

# WEB APPLICATION

- Create a basic HTML webpage introducing yourself.
- Add a table, list, hyperlink, image

Title: My Digital Identity – Personal Portfolio Web Page

- Create a personal portfolio website using HTML

## PHYSICAL EDUCATION

Unit-1 Changing Trends & Career in Physical Education----Roll no 01 to 15

Prepare a chart on steps taken by the Government of India to promote games and sports in India.

Unit -2 Olympism value Education ----- Roll no 16 to 30

Make a study of other international symbols .Make a collage of these symbols on a poster. How powerful are these symbols in conveying their message? Do you think the Olympic rings convey the message of Olympism?

Unit -3 Yoga ----- Roll no 31 and above.

Prepare a model showing eight paths( Ashtanga yog) of yoga.

## PSYCHOLOGY

### Instructions:

Use a scrapbook or notebook.

Add pictures, graphs, and hand-drawn illustrations for creativity.

Cite sources if you take help from books or internet.

→ **Prepare a report on the following activities:**

### 1 . Research Activities -Survey Method

An investigator wants to study the people 's attitude towards welfare programmes by circulating a questionnaire with help of internet.Is this study likely to reflect the views of general population accurately? Why or why not? **(50-60 eords)**

### 2. Case Studies ( Real-life conditions)

Instructions: Read the given scenario and answer the questions.

#### Case Study 1:

Scenario: A school noticed that some students are losing interest in studies and becoming more withdrawn. A psychologist is called to assess the issue.

#### Answer the following questions:

Which branch of psychology is most relevant here?

How can the psychologist apply psychological principles to help?

What role does observation play in this scenario?

**Case Study 2:** Scenario: A girl raised in isolation until age 8 shows difficulties in speech and social interaction.

#### Answer the following questions:

Explain the impact of heredity and environment in this case.?

What does this say about the critical period in development?

### 3.Activity A: Identify the independent variables and dependent variables from the given hypothesis.

#### Explain the following (50-60 words)

Topic1: Teachers's classroom behaviour effects students performance.

Topic 2 : Healthy parent- child relationship facilitates the emotional adjustment of children.

Analyze your findings: What patterns do you observe?

### 4.Activity B: Observational Study

Topic: Gender differences in communication styles

Observe and note differences in how boys and girls communicate in a social setting (e.g., group



discussions, family dinner).

Note any patterns related to tone, body language, or turn-taking.

Write a short report (200 words) on your observations and possible psychological explanations

### 5. Project Based Work

**Q Think of your experiences during your last 2-3 years and answer the following -**

1. Did you have started arguments with your parents?
2. What are the main problems occurring in communication with parents?
3. How did you solve your problems and whose help you seek?

Compare your list with your classmates. Are there any similarities?

Can you now think of better ways of solving the problem faced by you?

**6. Conditional Research** - A patient is critically ill, hospitalised for many years and shows no improvement. Should the life support system of the patient be withdrawn?

**Answer the following questions:** Q1 What is your view on mercy killing as it sometimes called? Discuss with your parents and teachers in detail.

## MUSIC VOCAL

Note : Practice  $\text{ॐ}$  Swar every day for 5 minutes by doing meditation.

- Make one melody based on raga Bihag
- Find 3 similar songs related to raga Bihag.
- Write a poetry on nature. (Do not copy)

Week 1 : Write the definitions of the following :-

Nada, Shruti, Swar, Saptak, Thaata

Week 2 : Write the Life sketch and Contribution of Tansen and V.N. Bhatkhande.

Week 3 : (a) Draw a picture of the Tanpura instrument and describe all its parts.

(b) Write the Drut khayal Swar Notation of Raga Bihag.

Week 4 : Describe Ektala and teentala along with Tala Notation :- Ekgun, Dugun and Chaugun.

## MUSIC PERCUSSION

**Prepare Tabla Percussion Practical File on the following Topic.**

Definitions – Sangeet , Lay.

Kayda in teen taal with Taal notation system.

Taal – Teen Taal with Thah , Dugun.

Biography of Pandit Nana Panse with picture.

Write about Banaras Gharana.

Tabla – Draw a picture of Tabla and give the details Description of its parts.

## PAINTING

Prepare the following paintings on A3 paper:

1. Object Drawing with Pencil: Create a detailed pencil drawing of an object, focusing on its texture, shape, and shading.
  2. Still Life with Pencil: Set up a still life composition and draw it using pencils, paying attention to proportions, shading, and textures.
  3. Landscape with Oil Pastel/Water Color/Pen & Ink: Create a landscape painting using one of the specified mediums, exploring color harmony, composition, and atmosphere.
- Use A3 paper for all assignments.
  - Experiment with different techniques and mediums.

- Pay attention to composition, proportions, and details.

## **DAYS TO REMEMBER**

### **WORLD ANTI TOBACCO DAY 31 MAY**

Make a poster on “Say No to Tobacco”



### **WORLD ENVIRONMENT DAY 5 JUNE**

Prepare Vertical Garden using waste plastic bottles.



### **WORLD OCEAN DAY 8 JUNE**

Write “My Ocean pledge”-one thing you will do to protect ocean.



### **WORLD BLOOD DONATION DAY 14 JUNE**

Write a “Thank you Card”to real life blood donors and send it to a local blood bank.  
(If Possible)



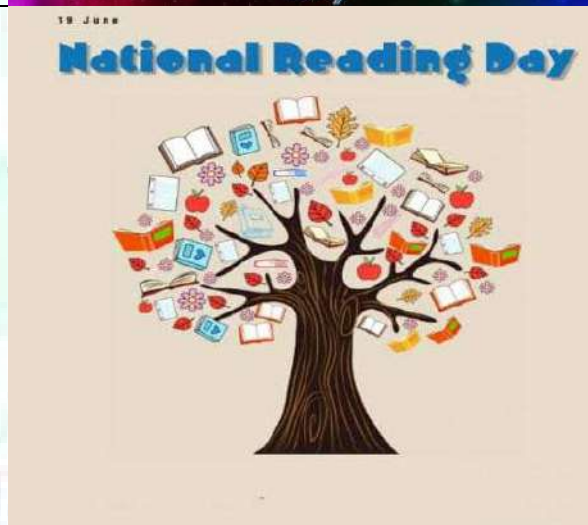
**FATHER'S DAY  
15 JUNE**

Make your father feel special by making any dish for him. Click photographs.



**NATIONAL READING DAY  
19 JUNE**

Make Book Mark- Write a quote on "Reading"



**INTERNATIONAL YOGA DAY  
21 JUNE**

Perform the Asan as of Surya Namaskar, click your photographs



**INTERNATIONAL DAY AGAINST  
DRUG ABUSE  
26 JUNE**

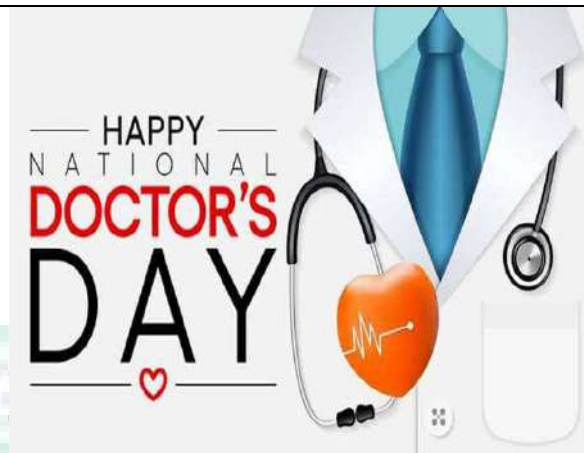
Take a pledge-against drug abuse  
"Write this pledge using beautiful calligraphy"





**WORLD DOCTOR'S DAY  
1 JULY**

**Write a Thank you note or email to your  
Doctor for his/her services.**



**INTERNATIONAL PLASTIC BAG  
FREE DAY  
3 JULY**

**Make a beautiful cloth bag for grocery**



***NOTE: All photographs & Activity sheets are to be added to  
portfolio.***