



**GURU NANAK PUBLIC SCHOOL
SARABHA NAGAR, LUDHIANA**

SUMMER BREAK ASSIGNMENT

CLASS X



MATHEMATICS

IMPORTANT INSTRUCTIONS :

1) The following activity is to be done on A4 size sheets for internal assessment for September examinations.

2) The activity is to be performed as per following :

- a) Objective
- b) Pre requisite knowledge
- c) Material required
- d) Procedure
- e) Observations/ Results

ACTIVITY

1) To verify whether the given pair of linear equations are consistent or inconsistent by Graphical method .

(a) $x - 2y = 0$; $3x + 4y = 20$

(b) $2x + 3y = 9$; $4x + 6y = 18$

(c) $x + 2y = 4$; $2x + 4y = 12$

2) To find trigonometric ratios of 30 degrees, 60 degrees and 45 degrees geometrically.

(Refer NCERT BOOK page number 122 and 123)

ENGLISH

Compare and contrast both the cities covering the following points

The Journey begins from Ludhiana

Page 1 Contents

Page 2. How to reach -by air, by road, by train-Travel fare by all the above means of transport.

Page 3. Climate

Page 4. Best time to visit

Page 5. Tourist spots

Page 6. History and Monuments

Page 7. Famous personalities of selected cities

Page 8. Bibliography

Page 9. Certificate of completion

Roll no 1 to 8 Bhubaneswar -Anandpur Sahib

Roll no 9 to 16 Puri -Amritsar

Roll no 17 to 24 Cuttack - Chandigarh

Roll no 25 onwards Konark - Patiala

- Note: The above Travel Brochure is to be completed on coloured A4 size sheets (Minimum 10)
- Paste pictures wherever necessary.
- Use coloured pens.
- Take the printout of the Portfolio shared below and fill it.
- All sheets along with Portfolio are to be kept in a file for submission.



Guru Nanak Public School Sarabha Nagar Ludhiana

STUDENT PORTFOLIO (ENGLISH)

Session 2024-2025

NAME: _____

CLASS: _____

SECTION: _____

ROLL NO: _____

ADMISSION NO: _____

SUBMITTED TO: _____

My Personal Inventory

THIS IS ME!!!!

Paste a photograph of
yourself or make a sketch
of yourself

I am _____, Admn no. _____

Class & Section _____, Roll no. _____.

Email id _____.

My Phone no. is _____.

My birthday is on _____.

Blood Group _____.

Father's name _____.

Mother's name _____.

Residential address _____

_____.

My family consists of _____

_____.

I love the most _____ in my family
because _____

_____.

Paste a family photograph

I have a special friend, his /her name is

Paste a photograph of
your friend with or without
you

I am very good at_____

I am not so good at_____

I get really angry when_____

I would like to learn about _____

I would be much better off if_____

I have a few good habits which are_____

The proudest moment of my life was_____.

My specific achievement in the session 2023-2024 is _____.

Someday I will _____

If I were allowed to help in class, I would _____.

If I could change anything, I would first _____.

I like my school because _____.

SCIENCE

1. Do the following(a & b) in a scrap book .
 - (a) Draw all ray diagrams for Mirrors and lenses .Also write position and nature of image formed .
 - (b) Draw colourful diagrams of – Human digestive system ,Respiratory system , Heart & Excretory system with proper labelling .
2. Write following practicals in science lab. Manual-
 - i) To find the pH of following samples by using pH paper
 - a) Dilute hydrochloric acid b) Dilute NaOH solution c) Dilute ethanoic acid
 - d) Lemon juice e) Water f) Dil. Sodium bicarbonate
 - ii) To study the properties of acids (Dil. HCl) by their reaction with :
 - a) Litmus sol. (Blue / Red) b) Zinc metal c) Sodium carbonate
 - iii) To perform & observe the following reactions & classify them into :
 - a) Combination reaction (b) Decomposition reaction (c) Displacement Reaction
 - (d) Double displacement reaction
 1. Action of water on quick lime 2. Action of heat on ferrous sulphate crystals.
 3. Iron nails kept in copper sulphate sol. - 4. Reaction between sodium sulphate and barium chloride solutions.
 - iv) (a) To observe the action of Zn, Fe, Cu and Al metals on the following salt solutions.
 - (i) ZnSO_4 (aq). (ii) FeSO_4 (aq). (iii) CuSO_4 (aq). (iv) $\text{Al}_2(\text{SO}_4)_3$ (aq).
 - (b) Arrange Zn, Fe, Cu and Al metals in the increasing order of reactivity based on the above results.

SOCIAL SCIENCE

Every student has to compulsorily undertake any one project on :-

Consumer Awareness (Refer Economics Ch5)

OR

Social Issues

OR

Sustainable Development

The project report entails the following requirements:

1. The total length of the project report should not be more than 15 written pages (A4 size sheets white or coloured).
2. The project report should be handwritten by the students themselves and credit will be awarded to original drawings, illustrations and creative use of material.
3. The project report should be presented in a neatly bound simple folder.
4. The project report prepared should be made from eco-friendly products without incurring too much expenditure.
5. The project report will be presented in the following FORMAT:
 - Cover Page
 - Acknowledgement
 - Contents
 - Introduction
 - Content Presentation
 - Conclusion/Summary
 - Bibliography
 - Teacher's evaluation report

PUNJABI

Note : Do the given work in Punjabi Grammar notebook.

1. 'ਹਰਿਆਵਲ ਲਹਿਰ :ਸਮੇਂ ਦੀ ਸਭ ਤੋਂ ਵੱਡੀ ਲੋੜ' ਅਤੇ 'ਸਮਾਜ ਵਿੱਚ ਬਜ਼ੁਰਗਾਂ ਦਾ ਸਥਾਨ' ਵਿਸ਼ਿਆਂ ਤੇ (200 ਸ਼ਬਦਾਂ ਵਿੱਚ) ਲੇਖ ਲਿਖੋ।
 2. (ੳ) ਆਪਣੇ ਸਕੂਲ ਦੇ ਪ੍ਰਿੰਸੀਪਲ ਜੀ ਨੂੰ ਬਿਨੈ- ਪੱਤਰ ਲਿਖੋ ਜਿਸ ਵਿੱਚ ਸਕੂਲ ਦੀ ਲਾਇਬ੍ਰੇਰੀ ਵਿੱਚ ਪੰਜਾਬੀ ਦੀ ਅਖਬਾਰ ਲਗਵਾਉਣ ਲਈ ਇੱਛਾ ਦੱਸੋ।
(ਅ.) ਕਿਸੇ ਪੰਜਾਬੀ ਅਖਬਾਰ ਦੇ ਸੰਪਾਦਕ ਨੂੰ ਲਾਊਡ ਸਪੀਕਰਾਂ ਦੀ ਦੁਰਵਰਤੋਂ ਸਬੰਧੀ ਪੱਤਰ ਲਿਖੋ।
 3. ਚਿੱਤਰ – ਵਰਨਣ
- * 'ਪਲਾਸਟਿਕ ਦੀ ਵਧ ਰਹੀ ਵਰਤੋਂ -ਇੱਕ ਗੰਭੀਰ ਸਮੱਸਿਆ' ਵਿਸ਼ੇ ਨੂੰ ਦਰਸਾਉਂਦਾ ਹੋਇਆ ਇੱਕ ਚਿੱਤਰ ਲਗਾਓ ਅਤੇ ਉਸ ਬਾਰੇ ਇੱਕ ਪੈਰਾ (50-60 ਸ਼ਬਦਾਂ ਵਿੱਚ) ਲਿਖੋ।

HINDI

1. निम्नलिखित विषयों पर लगभग 100 शब्दों में अनुच्छेद लिखिए।
क) ग्लोबल वार्मिंग- मनुष्यता के लिए खतरा
ख) विद्यार्थी और अनुशासन
2. निम्नलिखित विषयों पर लगभग 50 शब्दों में आकर्षक विज्ञापन बनाएँ।
क) बच्चों के कपड़ों का नया शोरूम खुला है, उसके लिए 25 से 50 शब्दों में एक विज्ञापन तैयार कीजिए।
ख) 'रक्तदान महादान'- आधारित विज्ञापन बनाएँ
3. पदबंध के पाँच भेदों के दो- दो उदाहरण लिखिए।
4. 'संचयन पुस्तक' में पाठ-2 'सपनों के से दिन' पढ़कर प्रश्नों के उत्तर लिखें। Note: Dear students, Do your Holidays Homework in Hindi Note book only

INFORMATION TECHNOLOGY

Note:

1. Design an attractive and beautiful Front Page for the Practical File mentioning the Subject Name, your Name and Class-Sec, and Name of the concerned SUBJECT TEACHER.
 2. Your Name, Class & Sec must appear as FOOTER on all pages.
 3. All the projects must be typed and not hand-written.
- Failing to meet these instructions will lead to ZERO marks.

PERFORM THE QUESTION GIVEN BELOW IN LIBREOFFICE WRITER: TAKE A PRINT OUT ON A4 CHART.

Q1. Type an essay on the topic '**Natural Language Processing**'. The essay must consist of:

- Heading – Font Family: Face - Harrington, Size: 36 , Highlight Color: Light Yellow , Colour : Green , Bold and Underline.
- Para 1 - Font Family : Face - Kristen ITC , Size: 24 , Colour: Red , Bold
- Para 2 - Font Family : Face - Lucida handwriting , Size: 22 , Colour: Blue, Italic
- Para 3 - Font Family : Face – Arial Black , Size: 22 , Colour: Blue, Italic
- A relevant image slightly rotated in anti-clockwise direction.
- Highlight the important key words with Highlight Colour: Light Orange

Q2. Create a Table of Contents for a report on '**Computer Memory**', including Introduction, Types and Devices.

Q3. Draw a custom template for a school certificate. You can refer to the sample certificate below for the layout of the different elements.



BANKING & INSURANCE

1. Introduction
 - Meaning of Negotiable Instruments
 - Features of Negotiable Instruments
2. CHEQUES
 - Meaning of cheques
 - Features of cheque
 - Types of cheques
3. BILLS OF EXCHANGE
 - Meaning of bills of exchange
 - Features of bills of exchange
4. PROMISSORY NOTES
 - Meaning of PN
 - Elements of PN
5. Give difference between PN & BE

To in plain A-4 size sheets, paste at-least 10 pictures, and submit in clear bag only.

ART

BLOSSOMING CREATIVITY



MATERIAL REQUIRED: Terracotta Pot(6-8 inches), Acrylic paints and brushes.
Paint a Pot with the help of Acrylic colours to create the star- burst effect.

HAPPY
HOLIDAYS