



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

SUMMER BREAK ASSIGNMENT

CLASS IX



MATHEMATICS

COMPARITIVE STUDY OF STATES OF PUNJAB AND ORISSA

USE OF MATHEMATICS IN ARCHITECTURE OF GOLDEN TEMPLE AND SUN TEMPLE

- # How several branches of Mathematics like Algebra, Geometry and Trigonometry are employed?
- # Which mathematical concepts are used in GOLDEN TEMPLE and SUN TEMPLE?
- # How to calculate time in SUN TEMPLE?
- # What is the area of Golden Temple and Geometrical shapes used in the design of Golden Temple?
- # How is Mathematics related to architecture?

The above project is to be done on A4 size sheets (Use 4 to 5 sheets) for internal assessment for half yearly examination.

ENGLISH

Note

- Q 1 to Q 3 are to be done on coloured A4 sheets.
 - The work should be neat and presentable.
 - All sheets along with Portfolio are to be kept in a file for the submission.
- Q 1: You are Amitoj. During the summer vacation, you went to your uncle's place in Bhubaneshwar in Odisha. You visited the famous tourist spots of this city along with your cousin. Record your experience and feelings in the form of diary entry in 120-150 words.
- Q 2: Surjit Patar is a prolific writer whose name will be imbibed in golden letters in the history of Punjabi literature. Write a descriptive paragraph on his life.
- Q 3: Solve the Integrated Grammar Exercises of set 1 to set 3 (Page no. 258 to 265) from 'New Design English Grammar'. (PDF of Integrated Grammar Exercise will also be shared in class groups).
- Q 4: Take the printout of the Student's Portfolio given below, complete it and submit it along with your holidays homework.



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 _____

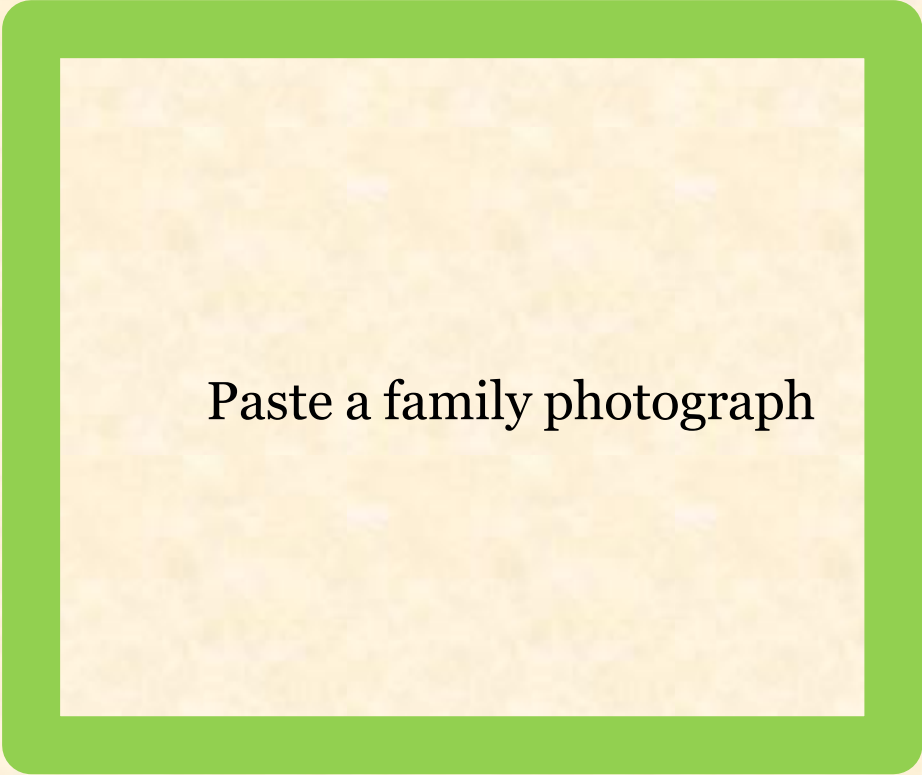
_____.

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 _____

Thank you

SCIENCE

Note- Do Science holidays homework in a separate scrapbook.

1. To draw the diagram of plant and animal cell.
2. Paste a picture of any one of each from the following types of motion from day-to day life –
 - a) Circular motion
 - b) Uniform motion
 - c) Non-uniform motion
 - d) Periodic motion
 - e) Rotatory motion
3. To study the effect of the surface area on the rate of evaporation for the following in tabulated form-

Record the data in the given table-

	Material used	Time taken
1	A piece of cloth (a handkerchief)	
2	Water kept in a small bowl	
3	A piece of paper (A4 size)	

4. Complete your practical file of the following experiments-
 - a) Experiment-5 Preparation of stained temporary mounts of 1) onion peel ii) human cheek cell and to record observation and draw their diagrams.
 - b) Experiment-6 Identification of parenchyma, collenchyma and sclerenchyma tissues in plants, striped, smooth and cardiac muscle fibers and nerve cell in animals from prepared slides.
 - c) Experiment-7 Determination of the melting point of ice and the boiling point of water.

SOCIAL SCIENCE

Prepare a project report on Disaster Management

The project work entails the following requirements:

1. The total length of the project report should be 15-20 written pages.
2. The project report should be hand written or digital and credit will be awarded to content accuracy, originality, analysis, presentation and creativity.
3. Various forms of art may be integrated in the project work.
4. The project report should be presented in a simple file.
5. The project report prepared should be made from eco-friendly products without incurring too much expenditure.

PUNJABI

Note : Do the given work in Punjabi Grammar notebook.

1. 'ਸਮੇਂ ਦੀ ਕਦਰ' ਅਤੇ 'ਪਾਣੀ ਦੀ ਮਹਾਨਤਾ ਅਤੇ ਸੰਭਾਲ' ਵਿਸ਼ਿਆਂ ਤੇ (200 ਸ਼ਬਦਾਂ ਵਿੱਚ) ਲੇਖ ਲਿਖੋ।
2. (ੳ.) ਆਪਣੇ ਛੋਟੇ ਭਰਾ ਨੂੰ ਇੱਕ ਚਿੱਠੀ ਲਿਖੋ ਜਿਸ ਵਿੱਚ ਉਸਨੂੰ ਖੇਡਾਂ ਦੀ ਮਹਾਨਤਾ ਦੱਸਦੇ ਹੋਏ ਪੜ੍ਹਾਈ ਦੇ ਨਾਲ-ਨਾਲ ਖੇਡਾਂ ਵੱਲ ਧਿਆਨ ਦੇਣ ਲਈ ਪ੍ਰੇਰਿਤ ਕਰੋ।
(ਅ.) ਆਪਣੇ ਮਿੱਤਰ/ਸਹੇਲੀ ਨੂੰ ਗਰਮੀ ਦੀਆਂ ਛੁੱਟੀਆਂ ਵਿੱਚ ਇਕੱਠੇ ਸ਼ਿਮਲੇ ਜਾਣ ਦਾ ਪ੍ਰੋਗਰਾਮ ਬਣਾਉਣ ਬਾਰੇ ਪੱਤਰ ਲਿਖੋ।
3. ਚਿੱਤਰ – ਵਰਨਣ
* 'ਪ੍ਰਦੂਸ਼ਣ -ਇੱਕ ਗੰਭੀਰ ਸਮੱਸਿਆ' ਵਿਸ਼ੇ ਨੂੰ ਦਰਸਾਉਂਦਾ ਹੋਇਆ ਇੱਕ ਚਿੱਤਰ ਲਗਾਓ ਅਤੇ ਉਸ ਬਾਰੇ ਇੱਕ ਪੈਰਾ (50-60 ਸ਼ਬਦਾਂ ਵਿੱਚ) ਲਿਖੋ ।

HINDI

1. अपनी हिंदी की पाठ्यपुस्तक स्पर्श के पाठ 'तुम कब जाओगे अतिथि' व 'मेरा छोटा सा निजी पुस्तकालय' (संचयन) का मौखिक अभ्यास करें।
2. सामान्य विषय पर आधारित कोई तीन अनुच्छेद याद करें व उसका लिखित अभ्यास करें।
3. अपनी व्याकरण पुस्तक की पृष्ठ संख्या 218 पर दिए गए संवाद 1 व 2 को अपनी उत्तर पुस्तिका में लिखें तथा पृष्ठ संख्या 224 पर दिए गए कोई दो संवाद का लिखित अभ्यास करें ।

BANKING & INSURANCE

Visit a bank in your area and prepare a report on various utility function provided by the banks.

. Also attach the pictures of cheque, credit & debit card.

To do in Plain A4 size sheets & submit in clear bag.

INFORMATION TECHNOLOGY

Make a Practical File for the practical examinations of session 2024-25. The application to be used is LibreOffice Writer ONLY. Take coloured printouts of all projects on A4-sized sheets.

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.

PROJECT 1: Collect information about ‘Natural Language Processing – Components & Applications’ and prepare a document on it according to the instructions given:

- i) Insert Header – School’s name and logo.
- ii) Apply a suitable page border.
- iii) Insert a “Frame” shape (Pink gradient colour) and write the heading inside it. (Center-align, Blue colour, font face-Comic Sans MS, font size-18)
- iv) Use bullets to display the component and application names.
- v) Component names - Font face – Monotype Corsiva, colour – Maroon, size – 16
- vii) Application names - Font face – Britannic Bold, colour – Green, size – 16
- vi) Insert a relevant picture for each component and application mentioned.

PROJECT 2: Create a list of 10 students by inserting a table with the following fields-

- | | | | |
|---------|-------------------|------------------|---------|
| 1. S.No | 2. Student’s Name | 3. Father’s Name | 4. City |
|---------|-------------------|------------------|---------|

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