



**New G.M.T Sen.
Sec. Public School
Holidays
Homework
Class IX
(Session 2024-25)**



PREFACE

Dear Parents and Students,

Summer vacation is around the corner, bringing with itself a much-needed respite from hectic school days. We hope that you will thoroughly enjoy the vacations and make the most of this summer. While it is indeed important that you relax and refresh yourselves, it is also important that you exercise your minds.

Keeping this in mind, we have designed various exciting activities to keep the students engaged and active during the summer vacation. These fun projects/ assignments would enhance learning skills, help understand concepts better, and make for a great crash course aimed at improving academic output.

These activities will not only help you to revise what was taught, but will also enrich your knowledge. These projects will be assessed as Subject Enrichment Activity, Portfolio or Art Integrated activity.

We encourage parents to motivate and support the students to ensure the given work is completed in time, to the best of their ability. Your support and encouragement both have a huge impact on your child's learning ability.

Wishing you a fun filled, safe summer vacation.

General tasks :

1. Make a food vlog by making any dish with the help of your mother.
2. Make a travel vlog of your family trip during summer vacation
3. Make a short video of any of your hidden talent.
4. Make something useful article out of the waste material.
5. Make a short motivational video.

Note: Students are supposed to send the videos on personal windows of their class incharge.

Best short listed videos will be uploaded on school's official social media handle.

Your creativity and innovation are welcomed

**ENJOY YOUR SUMMER VACATION
HAVE A FRUITFUL LEARNING!**

Mathematics

Revise the following chapters

Chapter 1, 2 and 3

Activity work :

- Perform an activity on Factorization of quadratic polynomial on A3 Size Sheet and make a short video while performing the activity(You can take the help from the following link) (<https://youtu.be/BkhUyrEBKxw?si=5mIlTg75aRHL4O4>)
- Make a chart on number system representing types of numbers and their examples
- Make a chart showing your monthly expenditure i.e shopping, grocery, electricity etc. Follow the instructions given below:
 1. Collect various bills.
 2. Make the total of the bills .
 3. Make a bar graph showing different expenditures and figure out where you have spent maximum and minimum.

English

Activity work:

1. Prepare an art integrated activity :
Design your own magazine comprising of four leaflets displaying:
 - Index
 - Facts and figures of English Language
 - Creative Corner comprising of poetry or story
 - Quotes: By famous poets with their names
 - EntertainmentInstructions:Magazine must contain 6-8 pages.
2. Prepare beautiful charts for tenses and determiners along with pictures pasted on it ,according to your roll numbers :
Roll no 1-6 (Present Tense with appropriate examples for all four rules)
Roll no 7-12 (Determiners with proper explanation)
Roll no 13-18 (Past Tense with appropriate explanation)
Roll no 19-24 (Determiners with appropriate explanation)
Roll no 25-32 (Future Tense with explanation of all four rules)

Hindi

Task:-

आम से कोई पेय पदार्थ बनाते हुए रील बनाएं

क्रियात्मक कार्य(Art integrated activity):-

हिंदी दिवस का महत्व बताते हुए उसे पर पोस्टर बनाएं।

Social Studies

Project File

Students have to submit a project on DISASTER MANAGEMENT.



Guidelines

- Every student has to compulsorily undertake any ONE project out of the given topics from Disaster Management.
- Choose any man-made or natural disaster to which India is vulnerable to e.g, building collapse, terrorist attack, earthquakes, cyclones, landslides, floods, etc.
- Prepare a detailed project under the following heads:
- Meaning of Disaster, Hazard, the difference between Hazard & Disaster, Disaster Management, and the various causes and mitigation measures of the disaster chosen by you.
- Your project should be supported by suitable photographs and paper cuttings of the affected area.

- Collect the data and prepare a report on ANY ONE of the recent disasters that has taken place in the country (LAST 2 YEARS)
- Define the role of citizens, NGOs, and government agencies during disasters.
- Students need to prepare their project on A4 size paper, which should be handwritten.
- The project should consist maximum of 8 pages.
(Cover Page: Title, Topic/ Name Of The Student/ Class/Section/Scholar Number) should be mentioned in the project.

Model:

Make a 3D model on the Primary, Secondary and Tertiary Sector of India.
(Students can take idea from <https://images.app.goo.gl/yXEKsjGga87m9Wsa9>)

Punjabi

- * Task - ਪੰਜਾਬੀ ਲੋਕ- ਗੀਤ ਗਾ ਕੇ ਇਕ ਰੀਲ ਤਿਆਰ ਕਰੋ।
- * ਪ੍ਰੋਜੈਕਟ ਤਸਵੀਰਾਂ ਦੀ ਮੱਦਦ ਨਾਲ ਤਿਆਰ ਕੀਤਾ ਜਾਵੇ।
ਪ੍ਰੋਜੈਕਟ ਨਾਲ ਸੰਬੰਧਿਤ ਜਾਣ-ਪਛਾਣ, ਵਿਸ਼ਾ ਸੂਚੀ, ਵਿਦਿਆਰਥੀ ਦਾ ਨਾਂ ਸਭ ਕੁੱਝ ਲਿਖਿਆ ਜਾਵੇ।
ਪੰਜਾਬ ਅਤੇ ਉੜੀਸਾ ਦੇ ਮੇਲਿਆਂ ਦਾ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਕਰਦੇ ਹੋਏ ਇਹ ਪ੍ਰੋਜੈਕਟ ਤਿਆਰ ਕਰੋ।
(ਰੋਲ ਨੰਬਰ 1 ਤੋਂ 17)
- ਪੰਜਾਬ ਅਤੇ ਉੜੀਸਾ ਦੇ ਤਿਉਹਾਰਾਂ ਦਾ ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਕਰਦੇ ਹੋਏ ਇੱਕ ਪ੍ਰੋਜੈਕਟ ਤਿਆਰ ਕਰੋ।
(ਰੋਲ ਨੰਬਰ 18 ਤੋਂ 34)
- * ਵਿਸਮਿਕ ਦੀ ਪਰਿਭਾਸ਼ਾ ਅਤੇ ਇਸਦੀਆਂ ਕਿਸਮਾਂ ਨੂੰ ਦਰਸਾਉਂਦਾ ਹੋਇਆ ਇੱਕ ਚਾਰਟ ਤਿਆਰ ਕਰੋ।
ਅੱਖਰਾਂ ਦੀ ਲੰਬਾਈ 6 ਸੈਂਟੀਮੀਟਰ, ਚੌੜਾਈ ਘੱਟ ਤੋਂ ਘੱਟ ਚਾਰ ਸੈਂਟੀਮੀਟਰ ਹੋਵੇ।

Science

Chemistry

Art Activity

- To study diffusion in our day- to- day life.
- To study the effect of temperature on the rate of diffusion.

You have to explore, observe, discover and perform activities related to diffusion. Then categorize your observations into the following:

-Solid in liquid diffusion, Liquid in liquid diffusion, Gas in liquid diffusion, Solid in gas diffusion, Gas in gas diffusion.

Also study the effect of temperature on the rate of diffusion while performing the activities. (<https://youtu.be/T7rbEJrlyvk?feature=shared>)

After observing and performing the activities, write down your observations in a scrapbook and also paste pictures while performing the activities.

Your work will be assessed on the basis of handwriting, presentation, neatness, indexing, and completion of activity and so on.

4. Write name of element, Symbol, number of electrons, protons, neutrons, valency, distribution of electrons in different shells and uses of elements on a chart.

1 to 5 elements.	Roll no. 1 to 10
6 to 10 elements.	Roll no. 11 to 20
11 to 15 elements.	Roll no. 21 to 30
16 to 20 elements.	Roll no 31 to last

"Creativity and innovative ideas are Welcomed"

"HAPPY LEARNING"

Physics

Activity work

Making a chart on

1. Motion and its type

2. Make a chart of graph on uniform and non- uniform motion .

a) Distance time graph

b) Velocity time graph

3. Make working model on Uniform circular motion.

4. Working model on Earth gravitation force

(<https://youtu.be/pStqoFxtYu8?si=3g031svv9I0DHo-3>)

(<https://youtu.be/ViGzE7j-1vQ?si=ODX1XfsK5Or5HOgD>)

5. Working model on anti gravity Device .

(<https://youtu.be/77jJN7cmrT4?si=uwfTkSdp8f5vqguk>)

C) Revise Chapter

a) Motion

Gravitation Till (Importance of gravitational force)

Biology

Art integrated project

Prepare a model to compare plant cell and animal cell using common household items like grains and pulses etc.

Consider a cell like your school. Each part of the cell (school) has responsibilities that must be done and certain organelles (people) to do them. Identify the functions of the following parts of the cell then identify which person does the same job. First one is done as an example to follow: Part of School that has a similar function

1. Cell Membrane (front office)

Function: Controls what goes in and out of the cell

2. Mitochondria

3. Nucleus

4. Ribosome

5. Cytoplasm

6. Golgi Body

7. Cell Wall (only in plant cell)

B) Complete practical note book

C) Revise Chapter - Fundamental unit of life