

A vibrant illustration of a beach scene. In the center, a wooden signpost stands on a sandy beach. The sign is a weathered, light-brown wooden board with a pointed bottom edge, mounted on a wooden post. It features the text "HAPPY Summer holiday" in a mix of fonts: "HAPPY" in a simple, bold, sans-serif font, "Summer" in a large, elegant, cursive script, and "holiday" in a smaller, simple, sans-serif font. The sign is flanked by green palm fronds that hang down from the top corners. In the foreground, on the sand, are several summer items: a pair of blue and black diving goggles, a red and white striped lifebuoy, a red and white starfish, a red and white beach ball, and another red and white starfish. The background is a clear, bright blue sky with a sunburst effect at the top center, and a calm, light blue sea. The overall scene is bright and cheerful, evoking a sense of a relaxing summer vacation.

HAPPY
Summer
holiday

JAGANNATH INTERNATIONAL SCHOOL
HOLIDAY HOMEWORK
CLASS-IX

Dear Students

With summer holidays around the corner, our hearts swell up with a spectrum of emotions.

To maintain the educational continuum and to keep in view the rejuvenation you need, an enriching homework for the holidays is designed to keep you constructively busy and put boredom at bay. Continue to read e-newspaper every day and don't forget to complete your notebooks and assignment of the syllabus covered in online classes during April and May.

Don your thinking cap, wear your magic mantle to put forth your creative side. Have fun and frolic, build up your learning activities as a treasure,

Hope to see you soon.

Happy summers!

With best wishes

ENGLISH

1. Literature is integral part of any culture or civilization so when we talk about the magnetic charm of beautiful Sikkim in the laps of Himalayas, how can we forget about the writers of Sikkim. Gather some information about the writer and his writings. On an A4 size sheet pen down all the information with pictures to make your work interesting.

2. Science fiction deals with imaginative and futuristic concepts such as advanced science and technology, time travel, parallel universe, space exploration. We want you to delve into an exploration of futuristic ideas presented by the some of the well-known authors of science fiction-

1. Issac Asimov
2. Arthur C. Clarke
3. Ray Bradbury

Read any one book written by one of the authors. Write a short book review, your favorite character, favourite incident of the story

HINDI



1. हस्तकला ऐसे कलात्मक कार्य को कहते हैं जो उपयोगी होने के साथ-साथ सजाने के काम आता है तथा जिसे मुख्यतः हाथ से या सरल औजारों की सहायता से ही बनाया जाता है। ऐसी कलाओं का धार्मिक एवं सांस्कृतिक महत्त्व होता है। इस तथ्य को

ध्यान में रखते हुए सिक्किम की हस्तकला के महत्व को बताते हुए विभिन्न हस्त कलाओं के चित्रों के माध्यम से उनके बारे में A4sheet रोचक जानकारी लिखिए। * मिट्टी से बने किसी बर्तन पर सिक्किम की हस्तकला को करके दिखाइए।
2. अप्रैल और मई माह में कराए गए पाठ्यक्रम को याद कीजिए।

MATHEMATICS

1. Make a Project on the Topic 'Architecture in Sikkim'

Collect information on different monuments and monasteries in Sikkim. Include height of the monument, height above sea level, built in area, polygon used in the structure etc. Use related images also. Make minimum 5-7 sheets excluding Title (front) sheet and the last sheet.

SCIENCE

Biology

1. Prepare a report on the "Biodiversity (flora and fauna)" found in Sikkim.
2. Do the given assignment and revise the syllabus completed so far.

Assignment

The fundamental unit of life

- Q.1 Why does the skin of your finger shrink when you wash clothes for a long time?
Q.2 Why is endocytosis found in animals only?
Q.3 If you are provided with some vegetables to cook. You generally add salt into the vegetables during cooking process. After adding salt, vegetables release water. What mechanism is responsible for this?
Q.4 If cells of onion peel and RBC are separately kept in hypotonic solution, what will happen?
Q.5 Which cell organelle controls most of the activities of the cell?
Q.6 Define chromatin. What is the significance of packaging of DNA?
Q.7 Why do plant cells possess large sized vacuole?
Q.8 What is the correlation between chromatin, chromatid and chromosome?
Q.9 What is a plasmid DNA?
Q.10 What leads to plasmolysis?

Chemistry

- Prepare puzzle games (Crossword, riddle, word scrambles, word search, Brain teaser etc) on ch- is Matt around us pure.
Where-to-do
On A-4 size sheets prepare 2-3 puzzles

ASSIGNMENT

- Q1. Give some examples of Tyndall effect observed in your surrounding
Q2. differentiate between:
true solution & a colloid
metals & non-metals
compound & mixtures
physical & chemical changes.
Q3. 0.5 g of salt is dissolved in 25g of water. Calculate the percentage amount of the salt in the solution.

Q4: During an experiment the students were asked to prepare a 10% (Mass/Mass) solution of sugar in water. Ramesh dissolved 10g of sugar in 100g of water while Sarika prepared it by dissolving 10g of sugar in water to make 100g of the solution.

Are the two solutions of the same concentration?

Compare the mass% of the two solutions.

Q5: Explain why filter paper cannot be used to separate colloids?

Q6. A compound is regarded as a pure substance while the mixture is not. Assign reason.

Q7. How can a saturated solution be made unsaturated?

Q8. Colloidal solutions show Tyndall effect but true solutions do not. Discuss

Physics

- Watch Science tricks on youtube. Link has been given for reference.

What to do

Perform two activities based on the video. Note down the observations. Click photographs/ prepare video while doing so.

Where to do

On A4 size sheet write your views, paste photographs showcasing the activities and their usage.

- Install 2 D Data Plotter in your mobile phones.

What to do

Use this application for plotting different types of graphs as given below.

Distance time graph for a Stationary body, Uniform and Non-Uniform motion.

Velocity time graph for non-accelerated motion, uniform and Non-Uniform acceleration.

Where to do

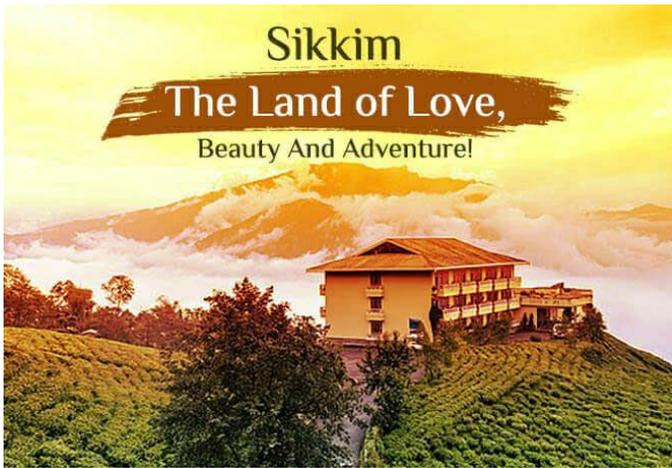
Take screenshots of the graphs plotted. Prepare a pdf file and submit.

- Solve the assignments given in the class.

SOCIAL SCIENCE

Though Sikkim is small in size but as said “Wonderful things come in small packages”, therefore it is a beautiful state to spend vacations as it is clean and green valley.

Make a beautiful project on Sikkim stating its geographical locations, demographic features, vegetation and culture along with beautiful pictures and enriching facts.



Please follow the format:-

- ❖ Index
- ❖ Acknowledgement
- ❖ Introduction
- ❖ How and when was it formed
- ❖ Compare present with past changes
- ❖ Rulers and current ministers
- ❖ Map work (old and new)
- ❖ Bibliography

ECONOMICS

QUESTIONS:

1. What are the factors of production?
2. Name the economic activity upon which majority of the India's population is dependent.
3. Give any two examples of fixed capital related to farming.
4. Name any one item of working capital.
5. The clay used by a potter is an example of which type of capital?
6. What are Rabi crops?
7. What are Kharif crops?
8. Explain Physical Capital as a factor of production.
9. Explain Labour as a factor of production.
10. Which term is used for production for self-consumption?
11. What are the negative side effects of modern farming methods?
12. What is Yield?
13. What is Multiple Cropping?
14. What does it mean by HYV seeds?
15. Who provides capital to the small farmers at high rate of interest?
16. Write down the name of crops that were promoted during Green Revolution.
17. What is Green Revolution?
18. Mention any two non-farm activities.
19. Name any two states which benefitted from the Green Revolution.
20. In which period cultivation of Potato is done?
21. What are the harmful impacts of Modern Farming Methods employed during 1960s?
22. All NCERT Questions not been covered in the above questions.

NOTE: All these questions must be written properly in your class notebook.

PROJECT:

Collect the data about India's GDP, contribution of each sector in the India's GDP, main industries of India, exports and imports of India, share of India's GDP in global GDP.

ARTIFICIAL INTELLIGENCE

- Make a Portfolio Presentation on **any two** of the given three topics:
 1. History of Artificial Intelligence and Meaning of Artificial Intelligence, also write about the AI behaviours those are associated with human intelligence
 2. Any 5 SDGs goals. Also write how we can achieve these goals with the help of Artificial Intelligence.
 3. Different types of Popular Mobile applications/Games based on Artificial Intelligence.

- Make a Portfolio presentation to find out the any three smart Initiatives which are being used in your city. You can use internet, talk to seniors, family members etc. Happy hunting! Smart initiatives in Your City

Name your city: _____

LIST OF INITIATIVES

1. Title of the Initiatives: _____

Function of the initiatives: _____

2. Title of the Initiatives: _____

Function of the initiatives: _____

3. Title of the Initiatives: _____

Function of the initiatives: _____
