KIIT WORLD SCHOOL
PITAMPURA, DELHI

Summer
HOLIDAYS' HOMEWORK

Hope your summer is filled with **reading**, **writing**, and most of all...**fun**!

Class X

Class X Session 2024 - 25

Theme: Global citizenship- Empowering change for future

Hindi १. कैनवा की सहायता से एक सूचना तैयार कीजिए जिसमें आप अंतर्राष्ट्रीय स्तर पर हो रहे हिन्दी ओलम्पियाड में छात्रों को आमंत्रित करते है। जिससे सभी छात्र मातृ भाषा के प्रति सशक्त हो सकें ।
कार्य करने की विधि -
- कैनवा डिज़ाइन को दिए गए लिंक पर भेजिए ।
    🗀 Holiday homework
- कार्य भेजते समय ध्यान रहे कि कैनवा डिज़ाइन A4 साइज़ का ही हो तथा उसी डिज़ाइन पर आपका पूरा नाम , कक्षा , परीक्षा अनुक्रमांक तथा तिथि अवश्य लिखें ।

२. "तीसरी क़सम के शिल्पकार"पाठ को मध्येनज़र रखते हुए भारत की वर्तमान पीढ़ी को भविष्य में हस्तकौशल सीखने के प्रति प्रेरित करते हुए एक फ़िल्म की पटकथा तैयार कीजिए जिसमें कम से कम ०५-१० पात्र हो और सभी की अपनी अहम भूमिका हो तथा सभी के नाम भी निर्धारित हो ।
कार्य करने की विधि -
- पी.पी.टी. को दिए गए लिंक पर भेजिए ।
    🗀 Holiday homework
- यह कार्य पावर पॉइंट की 8-10 स्लाइड्स पर होना चाहिए ।
- पहली स्लाइड पर आपका पूरा नाम , कक्षा , परीक्षा अनुक्रमांक तथा तिथि अवश्य लिखें ।
- दूसरी स्लाइड पर फिल्म का नाम , पात्रों के नाम , दृश्यों की संख्या ।
- तीसरी से नौवीं स्लाइड पर विषयवस्तु ।
- दसवीं तथा अंतिम स्लाइड पर निष्कर्ष तथा धन्यवाद ।

३. मनुष्यता कविता हमें दूसरों के लिए जीने का संदेश देती है । इस संदेश को आप भारत के जन-जन तक पहुँचाना चाहते है । इस संदेश के लिए आप एक भाषण तैयार कर, 2 मिनट का वीडियो रिकॉर्ड कीजिए ।
कार्य करने की विधि -
- विडियो को दिए गए लिंक पर भेजिए ।
    🗀 Holiday homework
- विडियो पोर्ट्रेट मोड में होना चाहिए ।
- पोशाक - विद्यालय की समर यूनिफार्म जिसमें विद्यार्थी ने स्कार्फ पहना हो ।

४. तन्तारा वामीरों पाठ की कहानी को चित्रों द्वारा प्रदर्शित कीजिए और वह चित्र ऐसे हो जिनके लिए शब्दों की आवश्यकता ना पड़े वह स्वयं अपने आपमें संपूर्ण कहानी बता रहे हो ।
कार्य करने की विधि -
- यह कार्य आपको A3 साइज़ शीट पर करना है ।
- बोर्डर होना आवश्यक है ।
- शीट के सीधे हाथ के निचले भाग में आपका नाम ,कक्षा,परीक्षा अनुक्रमांक लिखा हो ।
- चित्र 2D/3D भी हो सकते है ।
    सभी विद्यार्थी अपने नाम का एक फोल्डर तैयार करें तथा अपनी तीनों गतिविधि अपने नाम के फोल्डर में डालकर, उस फोल्डर को अपनी कक्षा के फोल्डर में डालिए ।

English

1. Project: Striving towards Global Citizenship
This project aims to deepen students' understanding of global citizenship and empower them to take action towards positive change for the future. By integrating various components from their textbooks, students will explore the concept of global citizenship and its implications for building a more equitable and sustainable world.

Project components:
- **Research on global issues:** Explore a diverse range of global issues, from environmental sustainability to social justice, economic inequality, human rights, and beyond. *Choose at least two and incorporate them in your project.*
- **Creative Expression:** Choose a creative medium that resonates and allows for personal expression, whether it's visual art, poetry, music, storytelling, or digital media. *Include poems, songs, pictures or songs which may align with your theme of the project.*
- **Community Engagement:** Foster partnerships with local organizations, NGOs, or grassroots initiatives that align with your interests and the global issues you are passionate about. *Conduct surveys and attach them in your project files. Use the format given in the link.*
https://docs.google.com/document/d/13uDirMb_7OlQideyguH09Ce3SPKNil9dZubaNvc-V0M/edit?usp=sharing

- **Action plan for change:** Developing concrete action plans that outline specific goals, strategies, and timelines for addressing global issues in their local communities or beyond. *You may include the following things:*
    - *(a) Education and Awareness*
    - *(b) Community Engagement*
    - *(c) Policy Advocacy*
    - *(d) Resource Mobilization*
    - *(e) Monitoring and Evaluation*

Topics covered:
1. Nelson Mandela: A Long Walk to Freedom (Roll no. 1-10)
2. The Book That Saved the Earth (Roll no. 11-20)
3. From the Diary of Anne Frank (Roll no. 21-30)
4. Fire and Ice (Roll no. 31 onwards)

Kindly note the following guidelines:
1. Project Word limit - 800 words
2. Cover page (can be collage/artwork)
3. Acknowledgment
4. Certificate

5. Index
6. Objective
7. Content related to the topic (Written material supported by newspaper clipping, graphs, original case studies, and surveys)
8. Bibliography
9. The projects prepared should be made from eco-friendly products without incurring too much expenditure.
10. The Project Report should be handwritten.
11. Use A4 size white/light coloured interleaf sheets and maintain them in a creative folder.

2. Art Integration Activities

Prepare and submit two activities where you integrate art with your chapter/ concept.

Choose the following activities as per your roll numbers and use the reference links.

(i) **Storyboard**- The Midnight Visitor (Roll no. 1-9)
https://www.yourdictionary.com/articles/storyboard-examples-students
(ii) **Travel Brochure**- Glimpses of India (Roll no. 10-18)
https://www.wikihow.com/Make-a-Travel-Brochure
(iii) **Collage Making**- Madam Rides the Bus (Roll no. 19-27)
https://www.wikihow.com/Make-a-Collage
(iv) **Graphic Organiser**- For Anne Gregory (Roll no. 28-36)
https://piktochart.com/blog/graphic-organizer-examples/
(v) **Comic Strip**- The Tale of Custard the Dragon Roll no. (37 onwards)
https://www.imagineforest.com/blog/how-to-create-a-comic-strip/

Mathematics

TASK 1: Mathematica Pioneers
Research-Based Project : Students are required to make the given projects as per the allotted Roll numbers. Kindly refer to your Roll numbers for the allotted project. The instructions for the same are as follow:
1. **Page 1: Self Introduction**
2. **Page 2: Index**
3. **Page 3: Acknowledgment**
4. **Page 4: Introduction of the Project**
5. **Page 5-10: Project report (Findings etc.)**
6. **Page 11 Reflections on the project**
7. **Page 12 Bibliography**
8. **Page 13 Pictorial presentation on chart paper as per your roll numbers.**
9. **Kindly note that the presentation on the chart paper must be 3D and it should be aesthetically appealing eg.**

Roll number 1-10

Population Growth Analysis:

a. Research about the current population of your country and at least two other countries for the past 10 years from different continents.

b. Use mathematical techniques such as percentage growth rate calculation to analyze the population growth trends in these countries over the past decade.

c. Create a line graph or bar graph to visually represent the population growth trends of the selected countries (Present it on a Chart paper in a 3D format)

d. Write a comparative analysis discussing the implications of population growth on global citizenship, including factors such as resource distribution, environmental sustainability, and socio-economic development.

Roll number 11-20

Currency Conversion and Exchange Rates:

a. Choose a foreign currency from a country you are interested in or plan to visit in the future.

b. Research the current exchange rate between your local currency and the chosen foreign currency.

c. Use mathematical calculations to convert a specified amount of money from your local currency to the foreign currency and vice versa.

d. Discuss the significance of understanding currency exchange rates for global citizens, including implications for travel, trade, and international financial transactions with your friends and hence write the precis of discussion on an A4 sheet.

e. Present your findings on a chart paper, Paste the pictures of various currencies and show mathematical conversions. Be as creative as you can.

Roll number 21-30

Statistical Analysis of Global Issues:

a. Select a global issue such as climate change, poverty, education, or health care.

b. Gather statistical data related to the chosen global issue from reputable sources such as international organizations or research institutions for atleast 6 countries.

c. Represent the data collected in the form of bar graphs, histograms, pictographs, pie charts, etc on a chart paper in 3D format.

d. Use mathematical techniques such as mean, median, mode, and standard deviation to analyze the data and identify key trends or patterns.

e. Write a statistical report summarizing your findings and discussing the role of global citizenship in addressing the selected global issue through informed decision-making and collective action on an A4 sheet.

Roll number 31 onwards

Geometric Exploration of World Landmarks:

a. Choose a famous landmark or monument from a country outside your own.

b. Research the dimensions and geometric properties of the selected landmark, such as height, width, surface area, and volume.

c. Use geometric formulas and calculations to explore the geometric attributes (like various shapes using cube,cuboid,cylinder etc.)of the landmark and create scale drawings or models .

d. Reflect on the cultural significance of the landmark and its role in promoting global understanding, appreciation, and citizenship.

e. Also Present your findings in the form of a chart paper, showing Mathematical aspects really well.

Task 2 : MathMarvels Expo

Create a working model on the mathematical themes as per the roll number slots given below.

Roll number 1-10

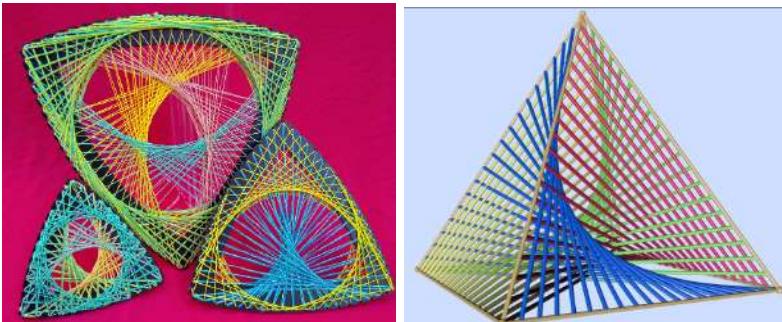**Prepare a working Model in order to show a system of similar triangles using Y-shaped Nails.**

Use the given link for reference.

https://www.youtube.com/watch?v=xNw3dsHbOas

Roll number 11 - 15

Prepare any 2 mathematical shapes using string art and elaborate the mathematical concept involved in it on an A 3 Sheet.

Examples for reference: https://www.youtube.com/watch?v=yhZJfaQB9k0

Roll number 16-20

Create an innovative game using a combination of circles involving sectors, segments, tangents,secant, etc. and hence determine the area enclosed in your game.

Roll No 21-25: -Prepare 5 Mathematical illusions on A3 sized sheet.

   Example for reference :

Roll numbers 25-30 Prepare a working model to verify the Basic Proportionality Theorem.
Use the given links for reference.

https://www.youtube.com/watch?v=uLapPjh-m64

https://www.youtube.com/watch?v=we-A0kDJAgA

Roll No. 31-40

Prepare a mathematical instrument 'clinometer' to measure the height of a distant object.
Use the given link for reference.

https://www.youtube.com/watch?v=gHeiueRpX7U

OR

Prepare a working model on Trigonometry

Use the given links for reference. : https://www.youtube.com/watch?v=N5JJKh-xJjU

Roll No. 40 Onwards

Prepare a working model on any of the following concepts :

- **Area related to circles**
- **Circles**
- **Arithmetic Progression**
- **Surface Area and Volume**

Task 3- Solve the given assignment:

https://docs.google.com/document/d/1hrX_WQSq3wvRZwpbK0DHq_AutHzjItdaHdv423vXehk/edit?usp=sharing

- Revise all the chapters done in class and solve all the assignments and PA-1 question paper in your math notebook.
- Complete all the Subject Enrichment, Multiple assessments, Portfolio, and project-based activities till May.

Task 4- During the holiday break, visit the CBSE (Central Board of Secondary Education) website daily to access the "Question of the Day" posted on the mathematics section. By engaging with these daily math challenges, you will have the opportunity to enhance your mathematics problem-solving skills and prepare a mini notebook to solve the questions regularly from the given website for 20 days.

https://aqadcbse.mindspark.in/index.php?class=10&language=en

Science

TASK-1 Preparing a breath of life: Exploring respiratory diseases
"An inclusive society is one that seeks the active, equitable, and respectful participation of all its members.Inclusion is a powerful concept that goes beyond merely tolerating diversity. In an inclusive society, each individual is valued and respected, regardless of their differences."
According to the latest Global Burden of Diseases Report, 2017, India has one of the highest burdens of chronic respiratory diseases. India contributes to 15.69% of Global Chronic Respiratory Diseases but 30.28% of all global deaths due to Chronic Respiratory Disease occur in India. As responsible global citizens, we should not only look for ways of helping out people suffering from such disorders but should also ensure their active participation in different areas.
Prepare a GUIDE BOOK on chronic health disorders highlighting the root causes, symptoms, remedies, helpline numbers, solutions and possible ways to take care of such patients.

- Use 2 coloured A3 size sheets to prepare a 4 page (front and back) guidebook.
- Conduct workshops and educate people in your localities and paste evidence for the same. (4-5 pictures of your interaction with neighborhood need to be pasted)
- Support your information and preventive measures with attractive illustrations, doodles, drawings, graphs, charts, and pictures.
- Only paste pictures/data graphs/charts. The information, preventive measures and main headings should be handwritten. Select aesthetic calligraphy styles to make the guidebook look attractive.
- **PAGE 1:** MAIN HEADING + an interactive caption and introduction to the problem, **PAGE 2**: root causes and symptoms of chronic health disorders.
  PAGE 3: factors that impact the symptoms
  PAGE 4: remedies, treatments and solutions.

TASK-2 (ECO-AVENGERS)
Demonstrate great citizenship by not just being responsible citizens but super heroes "ECO -AVENGERS". As an informed and concerned citizen, it is our responsibility to know our environment and keep looking for innovative ideas to conserve it. Prepare a powerpoint presentation based on the given topics to highlight the significance of preserving and nurturing our environment.
Roll no. 1-10 : ECOSYSTEM AND INTERDEPENDENCE
Roll no. 11-20: TROPHIC LEVELS AND FLOW OF ENERGY
Roll no. 21-30: POLLUTION AND OZONE DEPLETION
Roll no. 30 onwards: WASTE DISPOSAL AND MANAGEMENT

General instructions for making powerpoint presentations:
- Each student needs to prepare an individual presentation as per the assigned topic.
- The presentations should not have more than 10 slides.
- The presentation should include introduction, illustrations, eye-catching captions,

research analysis, associated problems and solutions and a summary/ concluding slide.

Presentation is required to be uploaded on the following links (google classroom assignment has been created for uploading the power point presentation)

X CONFIDENT :
https://classroom.google.com/c/NjcxOTA5MzM2OTcx/a/NjkyMjY1MTg3OTE3/submissions/by-status/and-sort-name/all

X CURIOUS :
https://classroom.google.com/c/NjcxOTExNjU0ODk4/a/NjkyMjY0MTQxNzY5/submissions/by-status/and-sort-name/all

X CARING:
https://classroom.google.com/c/NjYwMjMwMjUyODcw/a/NjkyMjY0MTQxNzg3/submissions/by-status/and-sort-first-name/all

X CONNECTED:
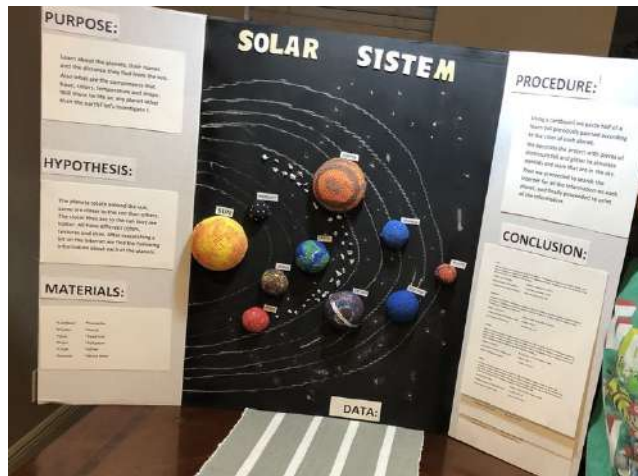https://classroom.google.com/c/NjYwMjMwMjU4MDg1/a/NjkyMjY0MTQxNzY0/submissions/by-status/and-sort-first-name/all

Kindly rename your file before uploading it on the drive. The format for uploading the file is "STUDENT NAME_class10_section". Example: "RAHUL SHARMA_10_confident"

TASK-3 (MAGIC TRICK)
Innovation and change go hand in hand. The most crucial way to empower change is to transform the way we think and more importantly revolutionize the way we learn.
Magicians have been using the scientific principles of optics to create illusions that we call "magic tricks". Use mirrors or lenses to prepare a fun game/toy or demonstrate a magic trick/optical illusion. Use any optical phenomenon to prepare the same and prepare a short verbal presentation to demonstrate the same. The optical illusion/ game/ toy must be presented aesthetically and submitted in school.

NOTE: The size of the toy should be such that it nearly covers an A3 size sheet. Place the toy on a cardboard and attach its working/instructions/description/principle on the same cardboard.

EXAMPLE: (MODEL+DESCRIPTION)

References:
1. https://youtu.be/vaDOGKdRMzg?feature=shared
2. https://youtu.be/SHyP9JanKPg?feature=shared
3. https://youtu.be/tVrlD2KIvk4?feature=shared

TASK-4 (Previous year questions - board target worksheet)
All students are required to take a new register, cover it with an orange sheet and label it as 'Board-target Science register'. The following worksheets must be pasted and solved in that notebook. Attempt all questions and gather your doubts for discussion post vacations.
Worksheet 1:
https://docs.google.com/document/d/1emopojbSrIG0GApvg4WYUUbkNkdkfqh4/edit?usp=drivesdk&ouid=108677935212075215505&rtpof=true&sd=true

Worksheet 2:
https://docs.google.com/document/d/1evEol8iH7yuANC4SPIwrMutPhx5pOWZr/edit?usp=drivesdk&ouid=108677935212075215505&rtpof=true&sd=true

Worksheet 3:
https://docs.google.com/document/d/1etPHb7a-pIAjRzWm3T40-IIH-W0oBWk6/edit?usp=drivesdk&ouid=108677935212075215505&rtpof=true&sd=true

Social Science

Task 1:
MODEL MAKING
ROLL NO: 1-10—Theme-Globe with interconnected figures: POVERTY

- **Use a globe as the base.**
- **Create small figures representing people from diverse cultures and backgrounds.**

- **Connect the figures with string or yarn, symbolizing the interconnectedness of the global community.**
- **You can highlight specific global issues like poverty.**

  Reference link is as below:

  https://www.youtube.com/watch?v=F4RZ5hs4CXM

ROLL NO: 11-20—Theme-Globe with interconnected figures: PEACE

- **Use a globe as the base.**
- **Create small figures representing people from diverse cultures and backgrounds.**
- **Connect the figures with string or yarn, symbolizing the interconnectedness of the global community.**
- **You can highlight specific global issues like PEACE**

ROLL NO: 21–30–Theme-Tree of Global Citizenship

- **Create a large tree using branches or craft materials on A2 size sheet.**
- **On leaves or cutouts, illustrate characteristics of a global citizen, such as:**
    - **Open-mindedness**
    - **Respect for diversity**
    - **Environmental awareness**
    - **Social responsibility**
    - **Empathy and compassion**

ROLL NO: 31-40–Theme-Tree of Global Citizenship
- **Collect images, quotes, and news articles that showcase individuals or groups working towards global betterment and paste them on A2 size tree, using cardboard.**
- **Include images of environmental efforts, humanitarian work, cultural exchange programs, or technological advancements that benefit humanity.**

Task 2:
PROJECT WORK BY CBSE
Project work enhances and helps improve a person's cognitive abilities and makes them sharper and more profound over time. Project work essentially accentuates a person's cognitive abilities and makes them better learners.
Keeping the above objective in mind, every student in Grade 10 has to undertake project on the following topics:
ROLL NO. 1-15: Consumer Awareness
ROLL NO. 16-30: Social Issues
ROLL NO. 31 ONWARDS: Sustainable Development with SDGs
Kindly note the guidelines:
   12. Project limit-15-20 pages

13. Cover page (can be collage/artwork)
14. Acknowledgment
15. Certificate
16. Index
17. Objective
18. Content related to the topic (Written material supported by maps, graphs, original case studies, and surveys)
19. Bibliography
20. The projects prepared should be made from eco-friendly products without incurring too much expenditure.
21. The Project Report should be handwritten.
22. Use A4 size white/light coloured interleaf sheets and maintain them in a creative folder.

Task 3:

POWERPOINT PRESENTATION

QC-1 ECO CH-2 SECTORS OF THE INDIAN ECONOMY

QC-2 HIS-CH-2 NATIONALISM IN INDIA

QC-3 GEO-CH-3 WATER RESOURCES

QC-4 GEO CH-4 AGRICULTURE

QC-5 POL SCI CH-3 GENDER, RELIGION AND CASTE

QC-6 POL SCI CH-4 POLITICAL PARTIES

Guidelines: First slide Name of Chapter with Name of QC members

Second slide Index (in the form of Major headings)

Rest slides content presentation in the form of photos and data

QC INCHARGE WILL UPLOAD IN THE BELOW GIVEN LINK

https://drive.google.com/drive/folders/1oSntX0uZeu4X13jeKAA977a3qJA4H-HG?usp=drive_link

Task 4: Mural Wonders- Elevating spaces with Mural Art

Mural Painting-Size A3 sheet or half of cardboard

DEPICT SCENE FROM HISTORY   (ANY ONE from below given incidents happened in the history)

INCIDENTS:

Jallianwala Bagh/Dandi March/Khilafat and Non-Cooperation Movement/Round Table conference/Battle of Waterloo/Partition of India/Champaran Satyagrah/Simon commission.

Task 5: COMPLETE ASSIGNMENT IN YOUR NOTEBOOKS

Computer Science

1.   Create a **POSTER** on an **A3 size sheet** on the theme **Global Citizenship**:

∅ It can include images of a diverse group of people standing together, holding hands in a circle, symbolizing unity and cooperation.

∅ It should contain some eye-catching phrases like Empower Change. Promote Justice. Support Sustainability, together let's build a better world for all, etc.

2. Create a PowerPoint presentation on "**HOW AI HELPS ACHIEVE SUSTAINABLE DEVELOPMENT GOALS**".

∅ It should consist of a minimum of 10 content slides

∅ Print of all the slides should be pasted on cardboard covered with chart paper.

3.Create an **INFOGRAPHIC** (**MIND MAP**) on the applications of AI around us. The students can use any software like CANVA, COGGLE, etc.

It should include a minimum of 8 AI applications.

Hardcopy(print on A4 size sheet) needs to be submitted at the time of submission.