INTER-DISCIPLINARY PROJECT
THEME: G20- ONE EARTH, ONE FAMILY, ONE FUTURE
CLASS VIII

Inter-disciplinary Project allows the student to learn by making connections between ideas and concepts across different disciplinary boundaries. Students learning in this way are able to apply the knowledge gained in one discipline to another different discipline as a way to deepen the learning experience. One of the major benefits of an interdisciplinary project is that the learners use and develop their critical thinking skills as they begin to consolidate learning by synthesising ideas from many perspectives. This approach is sure to foster a love of learning, ignite a spark of enthusiasm and address learning differences for students.

The G20 Presidency lends India the unique opportunity to put its imprint on the global education agenda. Inclusive and equitable education has been a focus item for the G20 as well. G20 is among the most influential grouping of countries for international development cooperation as it represents two-thirds of the global population, 85% of the world's GDP, and 75% of world trade. The reason it assumes greater significance with regards to education and edtech is because it also represents a diverse group of countries that find themselves at different stages of educational and economic development. Thus, with an emphasis on inclusive education, especially with India assuming the G20 Presidency, India can not only showcase its achievements and progress in digital education and edtech, but also help other developing member countries achieve it by using technology in education space.

Our students are an important part of the complex social culture. Sustained global progress can only take place when our children are made to assume responsibility as the torchbearers of tomorrow. Children, youth, families and communities must internalize how the issues presented by the changing world dynamics affect their own daily lives and environments, whether that be on improving health and nutrition; the importance of early learning and quality education; fostering more peaceful communities where children live free from violence; or establishing more sustainable approaches to use and preservation of natural resources.

The spectrum of activities is designed to unify pedagogy and the quintessence of education, so that our learners are nurtured as compassionate and capable global leaders of tomorrow. We wish that our children collaborate their fun filled vacation experiences with learning and get a chance to paint their holidays with creative spirit and academic endeavor.

- This project comprises of 7 parts –A, B, C, D, E, F and G
- The class will be divided into groups comprising 5 members each on the basis of roll numbers i.e., 1-5, 6-10, etc. (8 groups per class)
- Each group is expected to do all the 5 tasks given under each part (One task per child for each part)
- Each group will have a leader who will be coordinating with the group members, so that the work is completed and submitted on time
- Each group will collate and present their work in **one single file only**
- Make use of eco-friendly materials for preparing the models

➢ # Part A

Global issues demand the strengthening of global architecture and reshaping of international governance. Participate in India's response to critical economic, development, socio-political and security issues as its presidency sets global agendas, articulate policies and builds consensus. So, fasten your seatbelts as the flight to learning gets ready to depart and come back to school as not just children but future-ready citizens!

Task 1: Research on the history and evolution of the G20 summit, its objectives and agendas, and the countries that are part of it. Showcase the timeline in the form of a newspaper.

The newspaper should have four sections

1. Names and aims of Global Challenges/Goals

2. Write about any three global challenges that you feel must be given top priority in detail with pictures and information

3. Quotes- By famous scientists, leaders and activists with their names on the global challenges

4. Create Games & Puzzle on the new vocabulary learnt while researching about different global challenges (Any one) For example Crossword or Word Search

Where to do A3 Size sheets (4 pages)

Link: https://www.mea.gov.in/Portal/ForeignRelation/g20-august-2012.pdf

Task 2: Create 5 political cartoons hy hand that reflect the issues and debates of G20 2023 summit. Use humour and satire to express your opinion and perspective on the global political landscape.

Link: https://www.cartoonstock.com/directory/g/g20.asp

Task 3: Create a sculpture that symbolises the unity of the member nations of G20. This could be done by building a sculpture using building blocks or found objects such as stones or branches to symbolise the interconnectedness of the world.

Task 4: Create a digital storyboard depicting the role of India so far in G20 summits. You can choose any app or website to create your storyboard. One such website has been recommended below.

Digital Storyboard Website(recommended): https://www.storyboardthat.com/

Link for research: https://timesofindia.indiatimes.com/blogs/voices/indias-role-in-the-g20-how-it-can-contribute-to-global-economic-growth-and-stability/

https://labour.gov.in/lcandilasdivision/india-and-g-20

Task 5: World Flag Collage

Create a collage of flags from each of the member nations of the G20 summit to represent the diversity of the countries involved.

Link: https://www.careerpower.in/blog/g20-countries

➢ **Part B**

सकारात्मक शांति, संघर्ष और अर्थव्यवस्था (मेज़बान शहर –जयपुर / उदयपुर ; राजस्थान) विषय के आधार पर निर्देशानुसार कार्य कीजिए |

वर्ग 1. जी 20 के संदर्भ में 'सकारात्मक शांति, संघर्ष और अर्थव्यवस्था' विषय को आधार बनाकर मेज़बान शहर (होस्ट सिटी) के पर्यटन को बढ़ावा देने हेतु दो आकर्षक एवं सचित्र विज्ञापन तैयार कीजिए | (ए-3 आकार के कागज पर)

वर्ग 2. मेज़बाब शहर के उद्योग एवं लाख से निर्मित वस्तुओं की विशेषताओं को दर्शाता सचित्र, आकर्षक एवं ज्ञानवर्धक पोस्टर बनाए | (ए-3 आकार के कागज पर)

वर्ग 3. जी 20 के संदर्भ में 'सकारात्मक शांति, संघर्ष और अर्थव्यवस्था' विषय को आधार बनाकर जी 20 के सदस्य देशों की सूची उनके ध्वज सहित तथा मेज़बान शहर (होस्ट सिटी) की मुख्य जानकारी देते हुए तीन पृष्ठों की एक आकर्षक ज्ञानवर्धक पत्रिका बनाइए तथा उसे एक आकर्षक-सा शीर्षक भी दीजिए | (ए-3 आकार के कागज पर)

वर्ग 4. मेज़बान शहर की विशेषता एवं प्रसिद्ध वस्तु को कट आउट पर कलात्मक रुप से प्रस्तुत करें (जैसे :- उस प्रदेश का व्यंजन , पोशाक, कोई वाद्य यंत्र आदि के आकर्षक आकृतियों के कट-आउट पर अथवा स्वेच्छित कट – आउट पर |) ए -3 आकार का कट आउट |

वर्ग 5. दो अलग –अलग पतंगे लेकर अथवा स्वनिर्माण कर मेज़बान शहर के दर्शनीय स्थलों एवं वहाँ के प्रसिद्ध व्यंजनों (खानपान) की सचित्र प्रस्तुति तैयार करें | (सामान्य आकार की पतंग लगभग 12 X 12 इंच)

> ## Part C

Task 1: The G20 or Group of 20 is an intergovernmental forum comprising of 19 countries and the European Union (EU). It works to address major issues related to the global economy, such as international financial stability, climate change mitigation, and sustainable development. The following table shows the CO2 emissions of the G20 countries in 2011 and 2021.

Average of co2_per_capita	2011	2021
Argentina	4.6	4.1
Australia	18.1	15.1
Brazil	2.3	2.3
Canada	16.5	14.3
China	7.0	8.0
Europe (excl. EU-28)	9.6	9.3
France	5.6	4.7
Germany	9.9	8.1
India	1.4	1.9
Indonesia	2.0	2.3
Italy	7.1	5.5
Japan	9.9	8.6
Mexico	4.2	3.2
Russia	11.7	12.1
Saudi Arabia	16.5	18.7
South Africa	8.9	7.3
South Korea	12.7	11.9
Turkey	4.6	5.3
United Arab Emirates	22.5	21.8
United States	17.7	14.9

Task 1 : Arrange all the countries in the order of decreasing CO2 emissions in the last 10 years. Calculate the percentage decrease of top five countries. Pick up all the countries that have shown an increasing trend and find their percentage increase. Interpret the data and write your inference on the increasing CO2 emissions. Present the information in a flip book.

Task 2: Make a beautiful coloured 3D bar graph in the decreasing order of CO2 emissions. Find out the reasons for high emissions for the first top countries. Present the information in the form of a PPT.

https://www.investopedia.com/articles/investing/092915/5-countries-produce-most-carbon-dioxide-co2.asp

Task 3: As we discuss about the CO2 emitting countries and the reasons for their contributions, make a crossword puzzle highlighting the key issues the world is struggling to control the CO2 emissions.

Task 4: Some of the world's biggest emitters of CO2 have either imposed a carbon tax or have introduced emissions trading systems. Find out what countries have already introduced carbon tax. Make a colourful pie chart depicting top 20 countries in CO2 emissions and find out how many of them are working on the goal of reaching net zero emissions and by what year.

https://www.weforum.org/agenda/2022/07/carbon-tax-emissions-countries/

Task 5: Carbon offsets can lessen the impact of personal carbon footprints. For instance, a single tree is able to absorb 1 ton of carbon over its lifespan. The production footprint of a medium-sized vehicle can be offset by planting 9 trees. Find out about the different sizes of vehicles and amount of carbon emitted by them. Make a frequency table for 4 weeks (starting from21/05/2023) on amount of fuel used by your personal vehicle and write the inference on how many trees should be planted at the end of those four weeks.

https://8billiontrees.com/carbon-offsets-credits/carbon-ecological-footprint-calculators/carbon-footprint-questionnaire/

➢   **Part D**

The G20 Summit brings together world leaders to address pressing global challenges and pave the way for a better future. One of the key issues discussed is climate change, as it impacts our environment, biodiversity, and weather patterns. Additionally, the G20 focuses on pandemic preparedness to effectively respond to infectious diseases. Another crucial topic is the transition from fossil fuels to cleaner energy sources, which helps combat climate change. Moreover, the summit emphasizes sustainable waste management practices to tackle pollution and land degradation. By collectively addressing these challenges, the G20 aims to create a sustainable and prosperous world for all.

Task 1: Climate Change and Environment

Climate change is a global issue that has far-reaching consequences. It affects not only the environment but also human society, particularly in the form of natural disasters.

Create an **informative poster** (A3 size sheet to be used horizontally) that illustrates the link between climate change and natural disasters.

- Include information on how climate change leads to changes in weather patterns, rising sea levels, and other factors that contribute to natural disasters.

- Understanding the link between climate change and natural disasters is crucial in today's world.

- By educating ourselves about the issue, we can take steps towards creating a sustainable future for ourselves and the planet.
Reference Link -https://in.pinterest.com/pin/635781672375610834/

Task 2: Biodiversity Conservation and Ecological Sustainability

To raise awareness about the importance of biodiversity conservation and ecological sustainability, create a **PowerPoint Presentation** (of 8-10 slides) that highlights the connection between climate change and biodiversity loss.

- Presentation should showcase the biodiversity in your local environment and the threats it faces, such as habitat destruction and climate change.
- It should also suggest ways to conserve these precious resources for the future.
- By creating an informative presentation, you can help educate others about the importance of biodiversity conservation and ecological sustainability.

Reference Link - https://slideplayer.com/slide/2574639/

Task 3: Pandemic Preparedness and Response:

In the wake of the COVID-19 pandemic, it's essential to understand the importance of pandemic preparedness and response. To create awareness, create an informative **Project Report** (consisting of 10-12 pages) that illustrates how microorganisms are used in vaccine development and the ways to improve pandemic preparedness.

- Project should include relevant images, charts, and graphs to enhance the presentation of your information.

It should also highlight the significance of vaccines and personal hygiene in preventing the spread of diseases.

Task 4: Time to Look at Waste as a Resource

To tackle the twin problems of climate change and resource scarcity, we need to embrace circular economy - an economy based on reusing discarded goods as raw material. Create a **Working Model** on **Waste Management and Recycling Techniques** through the principles of reuse, recycle, reimagine, rethink, redesign, and remanufacture.   Reference Link - https://www.youtube.com/watch?v=80C8IYQ11YY

Task 5: Fossil Fuels and Climate Change

Research and create a **Brochure** on the topic **"Fossil Fuels and Climate Change"** that explains how the burning of fossil fuels contributes to global warming and the impact of climate change on the environment.

- As part of the brochure, include a section on the G20 summit and the steps that the member countries are taking to address climate change. Use images, charts, and graphs to make the brochure visually appealing and informative.

- Additionally, suggest a few simple steps that individuals can take to reduce their carbon footprint and help combat climate change.

Reference Link - https://twitter.com/ict201becker/status/1359736798784589830/photo/1

➢ **Part E**

Link Lesson: Resources

The **G20** or **Group of 20** is an intergovernmental forum comprising 19 countries and the European Union (EU). It works to address major issues related to the global economy, such as international financial stability, climate change mitigation, and sustainable development.

The G20 is composed of most of the world's largest economies finance ministries, including both industrialised and developing nations; it accounts for around 80% of gross world product (GWP), 75% of international trade, two-thirds of the global population, and 60% of the world's land area.

Tasks:

Task 1: G20 Resources Efficiency: "Locate Me!"

Get yourself acquainted with the G20 countries. On A3 size sheet paste the world map and highlight the G20 member countries and on the same sheet mention G20 countries along with any two vital natural resources available in the country. Student can use the given link to get information https://www.g20.org/en/ and https://www.resourcepanel.org/reports/natural-resource-use-group-20 . Students can use the given link to understand the format. https://docs.google.com/document/d/1MdzGPM_7mmjtapgrSDuPhijT-LW9rD4djNeoED-h-WU/edit?usp=sharing

Task 2: G20 and Sustainable Development: An Inclusive Growth

Explore the internet and gather information about sustainable development in context with G20 and resources. Create a Cover Page of a magazine on an A3 size sheet or on Canva App based on your findings on sustainable development relating it with G20. Students to use attractive pictures and quotes related to G20 and Sustainable Development and get ideas from internet on Cover page design. Students can use the given link to download Canva App http://www.canva.com/

Task 3: G20 and Resource Management: An Accordion Book

Students to research and create an Accordion Book on the Resource Management practices of any five G20 Countries. Students to gather information on the country's resource management policies, its successes and its challenges. Students can use the given link to get information about the various resource management practices used by different G20 member countries. (https://docs.google.com/document/d/1P0LyyuGZGr1NX4FLbl_BMi6cOPSyyfMndygr8BZHRJ8/edit?usp=sharing) Students can also use the given link to understand how to create an Accordion Book. https://youtu.be/wX91500Ck8o

Task 4: G20 and Resources: 'The Journey'

Explore internet and use the given information to Design a Brochure showing the journey of G20 Forum. The Brochure should include information on the Topics, Dates, Venues, Member Countries and Agendas of the G20 Summits. Starting from 2019 till date. Students can use attractive pictures and ideas from the internet. The Brochure should include 4-5 pages. Students can use the given link to understand how to make a brochure. https://youtu.be/lZltyts11Mg

Task 5: G20 and its Resources

Using information provided on internet create a collage of pictures and images related to the various agendas that have been taken up in G20 summits (Sustainable Development, Climate Change, Environment, Health, etc) on an A3 size sheet. Collage should be visually appealing and it must highlight agendas of G20 countries. Students can use the given link to understand how to make a collage. https://youtu.be/sLooH5Y_Rk8

➢ **Part F**

G20's Digital agenda is to help countries harness the benefits of the digital transformation - to boost more inclusive and sustainable growth by spurring innovation, generating efficiencies and improving services, artificial intelligence (AI) – a fast-moving technology ranging from data to smart mobility, the opportunities offered and to unleash innovation.

> **TASK 1:** Students are required to create a movie on topic "Concept of Smart Cities/ Smart Schools/ Smart Homes" using any video editing software.

> **TASK 2**: Make a digital Comic Strip on the theme "G20 – Innovation in technology".

> **Instructions:**

> Work needs to be submitted on the following email ID computerassignments@svisgdelhi.com with your name, class, and section in the subject line.

Chapter / Topic	Skill	H.H.W given in brief : सकारात्मक शांति ,तकनिकी ,उद्योग,सहयोग ,जी 20 देश और मेजबान देश विषय के आधार पर निर्देशानुसार कार्य कीजिए	
डिजीभारतम्/भारत जनताऽहम्	* सृजनात्मकता –कल्पनात्मकता • प्रस्तुतीकरण (कलात्मकता , सौंदर्यबोध) • भाषिक – निपुणता (स्तर , शुद्धता सटीकता) • विषय का सम्यक ज्ञान • जीवनमूल्य (भाईचारा, एकता)	वर्ग 1. जी 20 मेजबान देश के किन्ही 5शहरों के तकनिकी संस्थानों कों दर्शाते हुए एक पोस्टर का निर्माण करें और उन संस्थानों और शहरों का संस्कृत में नाम भी लिखें| (ए 3 आकार का) वर्ग 2. जी 20 देशों में से किन्ही 5देशों के पारम्परिक वेश-भूषा कों दर्शाते हुए एक 3-डी तारे का निर्माण कीजिए वेश-भूषा और देशों के संस्कृत में नाम शुद्ध सुंदर बड़े-बड़े अक्षरों में दर्शाएँ	(ए3 आकार का) वर्ग 3. जी 20 देशों में से 5 देशों के इको फ्रेंडली उद्योगों को दर्शाते हुए एक आकर्षक सा टेबल/दीवाल कैलेण्डर बनाए तथा उस पर महीनों के नाम संस्कृत में लिखें |(टेबल कैलेण्डर -चौड़ाई xलम्बाई 25सेंटीमीटर x25 सेंटीमीटर/ए3आकार का) वर्ग 4.जी 20 के देशों में से किन्ही 5 देशों के प्रसिद्ध पर्यटन स्थलों को चित्रित करते हुए एक बुकलेट का निर्माण करें तथा उन स्थलों और देशों के नाम संस्कृत में लिखें	(ए-3 आकार के कागज पर) वर्ग 5. जी 20 सम्मलेन के मेज़बान शहर की किसी प्रसिद्ध वस्तु को एक आकर्षक फोटो फ्रेम में कलात्मक रूप से प्रस्तुत करें तथा उस शहर और वस्तु का नाम संस्कृत में लिखें (जैसे :- उस प्रदेश का कोई स्थल,विशेष व्यक्ति , व्यंजन , पोशाक, कोई वाद्य यंत्र आदि की सचित्र प्रस्तुति) (ए -4 आकार फोटो फ्रेम)

➢ **Part G**

Task 1 – Create an appealing and informative cardboard frames of size half A4 highlighting the benefits of social media and prepare a brief write-up on a separate A4 sheet how it can connect people from all corners of the globe. (Link leçon-Les photos de Manuel)

Task 2 – Design an eye-catching poster A3 size showcasing opportunities and challenges of digital technology and craft your own slogans on separate sheets on creating a brighter future for all with digital technology.(Link leçon – La journée de Mme Lavigne)

Task 3- Create an inspiring and nutritious food book of size A4 size on promoting the use of millets for healthier living. You can also include 3-4 recipes and health benefits of millets. (Link leçon – Faire des courses)

Task 4 – Craft two impressive illustrations of size A3 on promoting the essence of what G 20 represents. (Link – French dictionary, vocabulary list given in the textbook)

Task 5 – Design catchy and vibrant flashcards of size a4 showcasing the popular French brands sold in India. Also prepare a brief write-up in points on benefits of international trade on a separate sheet. (Link leçon – M.Lavigne cherche le manteaux)

All the tasks to be prepared in French language only.

Chapter / Topic	Skill	H.H.W given in brief : H.H.W given in brief : जी ग्रुप आफ ट्वेंटी (G 20) 'वसुधैव कुटुम्बकम्' 'हिक धरती हिकु कुटुंब हिकु भविष्य '
Safalata Jo Raazu	* सृजनात्मकता - कल्पनात्मकता * प्रस्तुतीकरण (कलात्मकता , सौंदर्यबोध) * भाषिक - निपुणता (स्तर, शुद्धता सटीकता) * विषय का सम्यक ज्ञान * जीवनमूल्य- 'वसुधैव कुटुम्बकम्'	**वर्ग- 1** - जी 20 या ग्रुप आफ ट्वेंटी में घणनि मुल्कनि भागु वरितो आहे	भारत देश रीत आहे, मिजमान भग़वान थीन्दा आहिनि |(अतिथि देवो भवः)	प्रोग्राम में आयल किनि बि पंजनि मुल्कनि ऐ जा नाला लिखंदे हुनि जे कौमी झंडनि जा चित्र ठाहियो	5 फ्लैश कार्ड ठाहियो |{10cmx10cm) **वर्ग- 2-** जी ग्रुप आफ ट्वेंटी (G 20) जे ज़रिए 'सज़ो जगु हिकु कुटुंब आहे	समूरी दुनिया खे भारत जो हीउ पैगामु आहे	जी ग्रुप आफ ट्वेंटी (G 20) जे किनि बि पंजनि प्रोग्रामनि बाबत ज़ाण चित्र सुमेत हिक पंजनि पेजनि जी मैगज़ीन में ड्रियो |{10cmx10cm) **वर्ग-3-** जी 20 या ग्रुप आफ ट्वेंटी में घणनि मुल्कनि भागु वरितो आहे	आपसी भाईचारे ते ज़ोर डिनो वञे थो	अनेकता में एकता खे वधाइण में त्योहारनि जी तमाम घणी अहमियत आहे	किनि बि पंजनि त्योहारनि जा चित्र सुमत नाला लिखंदे हुनि मां कंहीं बि हिक त्योहार जे बारे में सिंधीअ में लिखो	5 फ्लैश कार्ड ठाहियो |{10cmx10cm) **वर्ग- 4-** जी ग्रुप आफ ट्वेंटी (G 20) जे ज़रिए 'सज़ो जगु हिकु कुटुंब आहे	समूरी दुनिया खे भारत जो हीउ पैगामु आहे	जी ग्रुप आफ ट्वेंटी (G 20) जे मकसद सां वास्तो रखंदड़ विषय ते चित्र ठाहे सिंधीअ में संदेश लिखो	{5 फ्लैश कार्ड 10cmx10cm) **वर्ग- 5-** जी 20 या ग्रुप आफ ट्वेंटी में घणनि मुल्कनि भागु वरितो आहे	आपसी भाईचारे ते ज़ोर डिनो वञे थो	हिन में बियनि मुल्कनि जे स्वागत लाइ भारत जी सभ्यता ऐ संस्कृतीअ जी तमाम घणी अहमियत आहे	भारतीय संस्कृतीअ जूं पंज खासियतूं चित्र सुमत सिंधीअ में ज़ाण ड्रीन्दे हिकु पोस्टर ठाहियो	{पोस्टर A-4)