



JKGIS

**JKG INTERNATIONAL SCHOOL INDIRAPURAM  
CLASS-VIII  
SUMMER VACATION HOME WORK  
Session 2024-25**

**Integrated Project**

Aligned with NEP guidelines, we're implementing integrated project-based learning wherein students will prepare project for all the subjects united by a common theme. This approach fosters a deeper grasp of subject matter and illuminates connections between diverse areas of study.

**Dear student  
Greetings!!**

As we embark on this journey of learning and growth, we introduce you to a topic that not only impacts our present but shapes our future- **Climate Action, as outlined in Sustainable Development Goal (SDG) 13**. This holiday homework is designed to deepen your understanding of climate change and inspire you to take action towards a sustainable future. Climate change isn't just a distant phenomenon; it's a pressing issue affecting every corner of our planet. Understanding its causes, effects, and potential solutions is crucial for us as global citizens. So Let's dive in and explore the boundless possibilities of climate action together!

**General Instructions**

1. Integrated project of "**Climate Action – Paving way to a Sustainable Future**" shall be done on A4 size sheet and further to be compiled in single project file.
2. Credit will be awarded to original drawings, illustrations and creative use of materials
3. All homework should be handwritten (except computer) and neatly done
4. The homework should entirely be done by the child. Parents can only guide, if required.
5. The work needs to be done in the same sequence as mentioned.
6. Students are required to submit their folders of holidays H.W on 1<sup>st</sup>July,2024.

**Note:**

- \* **Holidays home work will be assessed in co-scholastic areas and grades will be awarded for the same in progress report.**
- \* **Revise Syllabus of all the subjects for Unit Test-1**
- \* **Upon your return to school after the vacation, you are asked to bring plastic waste collected during vacation as part of our sustainability initiative. Students who will participate enthusiastically in this endeavor will be felicitated with a certificate of appreciation for their dedication to creating a sustainable future.**

## **Theme: "Climate Action – Paving way to a Sustainable Future."**

- **Mock Interview**

Explore the Life Journey of Peepal Baba, the Environmentalist. Imagine you have the opportunity to interview Peepal Baba about his life and environmental advocacy. Prepare a mock interview script with questions you would ask him, focusing on his background, inspiration, and environmental initiatives.

- **Documentary film**

Watch a documentary film about climate change or environmental activism, such as "An Inconvenient Truth" or "Chasing Ice," and write a review discussing the film's key messages, impact, and relevance to their own lives.

- निम्नलिखित कार्य को रोल नंबर के अनुसार करें:

1. 'पर्यावरण संरक्षण - हमारी जिम्मेदारी' विषय पर एक नुक्कड़ नाटक लिखें, जिसका उद्देश्य लोगों में जागरूकता बढ़ाना और पर्यावरण संरक्षण के महत्व को उजागर करना है। (रोल नंबर 1-15)
2. ' बंजर धरती करे पुकार, करो हरे पेड़ों से उनका श्रृंगार', लोगों में पेड़ संरक्षण की भावना को जागृत करते हुए सचित्र स्लोगन लिखिए। जिसमें प्रकृति का मानव द्वारा संहार और बचाव दोनों रूप प्रदर्शित हो । (रोल नंबर 16-30)
3. पर्यावरण आंदोलन का समर्थन करें, जिसमें प्राकृतिक संसाधनों का सतत प्रबंधन शामिल है। 'हरित आंदोलन' को मुख्य बताते हुए, 1700 से 2000 के दौरान भारत में कुछ प्रमुख पर्यावरण आंदोलनकारियों के बारे में जानकारी एकत्र करें। (रोल नंबर 31 से आगे)

- **Data Analysis on Global Temperature Rise:**

1. Collect data on global temperature rise over the past century, analyse it and create a graph to illustrate the trend.
2. Use statistical analysis to compare the effectiveness of different renewable energy sources in reducing carbon emissions.
3. Do Sample Paper 1 of Math on plain A4 size ruled sheets.

- **Map Carbon World**

Almost all the countries of the world whether developed or developing are culprits for hazardous gases emission, leading to a massive blow to climate.

On a political map of the world mark the countries which are emitting these harmful gases to the maximum. (CO<sub>2</sub>, methane, carbonmonoxide etc).and paste it on A-4 size sheet.

- **Let the polluters pay:**

Various health and environmental problems are arising out of harmful effects of climate change. Governments across the globe are spending a huge part of their budgets to combat it. Design a pamphlet to generate awareness among masses highlighting the economic solutions to combat climate change such as taxing heavily on the institutions and organizations that are causing severe blow to climate.

- **Crossword puzzle:**  
Description: Create a crossword puzzle covering various aspects of climate change i.e cause, effects, remedies, role of institutions, personalities, major summits for climate change.
- **3-D model on Climate Change**  
Create a 3-D model on Climate Change using waste materials.
- **Protecting Coral Reefs**  
Coral reefs are vibrant underwater ecosystems that support a vast array of marine life. However, they are under threat due to climate change. Warmer ocean temperatures, ocean acidification and pollution are causing coral bleaching and degradation, endangering these valuable ecosystems.

Questions:

- How does climate change impact coral reefs?
  - Describe the effects of warmer ocean temperatures on coral bleaching, ocean acidification's impact on coral calcification, and how pollution exacerbates these threats.
  - What are the consequences of coral reef degradation for marine biodiversity?
  - Explain how the loss of coral reefs affects marine biodiversity, including the decline of fish populations, loss of habitat for various species, and disruptions to entire marine ecosystems.
  - What measures can be taken to mitigate the impacts of climate change on coral reefs?
  - Discuss strategies such as reducing carbon emissions, implementing sustainable fishing practices, and establishing marine protected areas to reduce direct human impacts on coral reefs.
  - What are the challenges in implementing coral reef conservation measures, and how can they be addressed?
  - Identify challenges such as limited resources, governance issues, and competing interests, and propose solutions such as international cooperation, capacity building, and innovative financing mechanisms.
- Explique en français pourquoi la réduction des émissions de gaz à effet de serre est importante pour lutter contre le changement climatique.
  - पर्यावरण सुरक्षा एवं जलवायु परिवर्तन की रोकथाम में सहायक होने वाले पांच वाक्य सरल संस्कृत भाषा में लिखिए।  
उद्धारार्थः मैं वृक्ष लगाऊँगा( वृक्षं रोपयिष्यामि । ) मैं प्रदूषण कम करूँगा । ( प्रदूषणं घटयिष्यामि।)  
कार्य :  
अपनी सूची में से चयनित किसी एक कार्य को कार्यान्वित करते हुए उसकी अपने साथ एक फोटो खींचे या वह कार्य करते हुए ए० फोर शीट पर चिपकाकर या बनाकर उसके नीचे एक लघु वाक्य संस्कृत में लिखिए।  
उद्धारार्थः मैंने पेड़ लगाया।( अहम् वृक्षमं अरोपयम्। )
  - Create a PowerPoint Presentation that explores how technology can be utilized to address and mitigate the effects of Climate Change.