

MAHESHWARI PUBLIC SCHOOL, JAWAHAR NAGAR, JAIPUR

HOLIDAY HOME WORK

CLASS-9

A multidisciplinary project is a project in which different subjects are connected together through one common topic. It helps students to apply the knowledge and skills of various subjects in an integrated and practical manner.

Students are instructed to prepare a project file for the multidisciplinary project. The file should contain interleaving pages, and all the subject-related work must be completed in the same file only. No separate sheets, notebooks, or charts are to be prepared for this project. All the subject teachers will evaluate the work done in the project file.

TOPIC – Natural Calamities and Disaster Management

ENGLISH

For Roll No. 1 to 25

1. Using the hints given below and along with your own ideas, write a factual description in about 120–150 words describing an earthquake.

Hints:

- Time and intensity of the earthquake
 - Effect on buildings and people
 - Rescue work carried out by authorities
 - Safety measures to reduce damage
2. Make a poster on an A4 size sheet on the topic “Landslide Safety and Disaster Management” showing preventive measures, warning signs, and do’s and don’ts for people living in hilly regions.

For Roll No. 26 onwards

1. You are Karan/Karuna Singh of 34, Hill View Colony, Shimla, Himachal Pradesh. Write a letter to the Editor of a national daily, drawing attention to the frequent landslides in hilly regions and suggesting preventive measures to protect people and property.

2. Imagine that your town has been affected by a sudden flood. You are a member of the disaster management team. Write a dialogue between you, a doctor, a rescue officer, and a local citizen discussing the problems.

HINDI

For Roll No. 1 to 25

“सतर्क रहें, सुरक्षित रहें” विषय के अंतर्गत विद्यार्थी किन्हीं दो आपदाओं (आग लगना, बाढ़, भूकंप, भू-स्खलन आदि)का उल्लेख करते हुए यह भी लिखें कि इन आपदाओं के समय क्या करें व क्या न करें।

For Roll No. 26 onwards

“प्राकृतिक आपदाएँ केवल प्रकृति का प्रकोप नहीं, बल्कि हमारी लापरवाही का परिणाम भी हैं।” इस कथन पर अपने विचार व्यक्त कीजिए।

SANSKRIT

For Roll No. 1 to 25

कस्यचित् द्वयोः प्राकृतिक-आपदोः चित्रे संयोज्य संस्कृतेन तयोः वर्णनं कुरुत।

For Roll No. 26 onwards

(ii) ‘आपत्कालीन-सामग्री’ (Emergency Kit) इत्यस्याः पञ्चवस्तूनां सूचीं संस्कृते लिखत तथा च तानि वस्तूनि अधिकृत्य पंचवाक्यानि लिखत।

FRENCH

Rédigez un article de 300 mots sur “ Les calamités naturelles et gestion des catastrophes”
Faites le devoir sur le papier A4.

(Write an article of 300 words in FRENCH on “The natural calamities and disaster management “)

MATHS

For Roll No. 1 to 25

Topic Chosen (1): Floods: A Growing Urban Challenge

1. Select Any One Urban Area Affected by Floods
Examples: Mumbai, Chennai, Bengaluru (local flooding during monsoon)
2. Collect Flood-Related Data year wise
3. Prepare a Data Table
4. Represent the Data Mathematically
 - A. Bar Graph: - Choose any one parameter (e.g., rainfall in different areas of the city) and draw a bar graph.
 - B. Line Graph: - Plot rainfall vs. days of the week during the flood period.
 - C. Calculate: Mean rainfall, Median rainfall and Percentage increase or decrease in rainfall compared to normal rainfall and ratio of affected to unaffected areas.

For Roll No. 26 onwards

Topic Chosen (2): Pandemic Outbreaks: Lessons from COVID-1G

1. Collect COVID-19 Data.
Choose any one of the following: India's COVID-19 data (monthly or yearly), Rajasthan's COVID-19 data, Jaipur district COVID-19 data and Global COVID-19 comparison (India vs. 3 countries)
Collect numerical data such as: Number of cases, Number of recoveries, Number of deaths, Number of active cases, Vaccination numbers and Monthly or weekly trends.
2. Prepare a Data Table
3. Represent the Data Mathematically
 - A. Bar Graph; - Represent: Monthly cases OR Vaccination numbers
 - B. Line Graph: - Plot: Cases vs. months OR Recoveries vs. months

SCIENCE

For Roll No. 1 to 25

Your Topic: Pandemic as a Natural Disaster.

What to Prepare: A project (6-7 pages). Include diagrams and relevant pictures.

Project Structure:

1. **Introduction:** Define natural calamities and explain scientifically why a pandemic (like COVID-19) fits the definition of a biological/natural disaster.
2. **Causes:** Explain the basic biology of how viruses spread (pathogens).
3. **Impact:** Discuss the effects of a pandemic on the environment and human health.
4. **Science:** Briefly explain the science behind vaccines and immunity.
5. **Disaster Management:** Detail the steps India took during COVID-19 (e.g., lockdown, vaccination drives, and India's global contribution via vaccines like Covaxin/Covishield).
6. **Conclusion:** Summarize how improved scientific preparedness can help reduce the damage from future pandemics.

(Roll No. 26 onwards)

Your Topic: How Drought Affects Soil Nutrients and Crop Yield.

What to Prepare: An assignment in a file including diagrams and a graph.

Your Tasks:

1. Explain in detail how dry soil (drought) impacts the availability of **Nitrogen** and **Phosphorus** for plants.
2. Draw a well-labeled diagram of the Nitrogen Cycle. In points, explain specifically how drought prevents essential bacterial activity?
3. Draw a clear bar graph showing the relationship between **Crop Yield** and **Soil**

Moisture.

4. Write a short summary about why proper water and irrigation management is crucial for keeping India's soil fertile and securing our food supply.

SOCIAL SCIENCE

Design a "Do's and Don'ts" brochure for earthquakes or a flash flood awareness poster for a local area.

For Roll No. 1 to 25

Case Study Analysis:

Choose a specific disaster (e.g., 2023 Sikkim floods or an earthquake) and analyze its causes, effects, and mitigation strategies.

For Roll No. 26 onwards

Case Study Report -

Impact Analysis: Prepare a report analyzing the causes and impact of the 2025 cloudbursts in specific districts like Mandi, Kullu, or Dharamshala.

Information Technology

Create a student portfolio and include the following activities:

- a) Create a report of one page on topic "Natural Calamities & Disaster Management" in LibreOffice Writer with formatting of your choice. Attach the printout of the same in student portfolio.
- b) Make a collage on the topic "Natural Calamities & Disaster Management" with related pictures in LibreOffice Writer. Make it presentable and attach the printout of the same in student portfolio.