

Holiday Homework - Geography Project for class 9 Year 2020- 2021

All students are required to do a project for which Ten marks are allotted in the final assessment. This project calls for work during the vacation. Detailed instructions as to how to go about the job have been given. They must begin with collecting relevant information, organise it during their summer vacation. Final writing needs to be done in the school. The Draft report has to be submitted within two weeks of school re-opening. Students are required to choose a topic from the list of topics given.

PREPARATION AND SUBMISSION OF PROJECT REPORT

Following essentials are required to be fulfilled for its preparation and submission-

1. The total length of the project report will not be more than 8-10 written pages of A-4 size paper).
2. The project report will be handwritten and credit will be awarded to, use of maps, graphs and articles from news papers and magazines; for original drawings, illustrations, photographs, artworks, good layout and creative use of materials . (one should not cut pages from costly magazines such as National Geographic etc,.
3. The students should prepare a draft before finalizing the report. Final writing should be done in the school
4. The project report will be presented in a neatly titled cover page or paper folder (Plastic folder should not be used.)

The project report will be developed and presented in this order

- Cover page showing project title, student information, school and year.
- List of contents with page numbers.
- Acknowledgements (acknowledging the institution, offices and libraries visited and persons who have helped)
- Project Overview: Purpose, Aim, Methodology and experiences while doing the project.
- Chapters with relevant headings.
- Summary and conclusions based on findings.
- Planning and activities to be done during the project, if any giving a calendar of activities.
- References: should have the Title, author, publisher, year of publication and if a website the name of the website with the specific website link which has been used.
- All the photographs and sketches and news paper cuttings should be labelled and acknowledged.

Qualities of Good Cover Page:

The cover page must have the following qualities:

1. Hand drawn and designed using pictures and slogans which indicate clearly the title of the project.
2. Catchy titles
3. Pictures and information relevant to the topic covered in the project
4. The details of the school's name and address, class and year.
5. Student's full name.

Candidates will be required to prepare a project report on any one topic. The topics for assignments may be selected from the list of suggested assignments. Candidates can also take up an assignment of their choice under any of the broad areas given in syllabus for class IX.

Suggested list of Assignments: (a) Weather records: Maintaining and interpreting weather records as found in the newspaper for at least one season. (b) Collection of data from secondary sources: {Using Modern techniques i.e., Global Positioning System (GPS), Remote Sensing, Aerial Photography and Satellite imageries}: Preparing a Power Point presentation on current issues like – use of earth resources/ development activities/dangers of development and ecological disasters like droughts, earthquakes, volcanoes, floods, landslides cyclones and tornadoes in the world. (c) Physical

Features: Collection of data from primary and secondary sources or taking photographs and preparing notional sketches of features found in the vicinity or areas visited during the year as a part of school activity. (d) Find out the sources of pollution of water bodies in the locality and determine the quality of water. (e) Collect information on global environmental issues and problems and communicate your findings through appropriate modes (posters, charts, collages, cartoons, handouts, essays, street plays and PowerPoint presentation). (f) Area Studies: Choosing any aspect from World Studies and preparing a Power Point presentation or a write up on it. (g) Meteorological Instruments and their uses: Six's maximum and minimum thermometer, mercury barometer, aneroid barometer, wind vane, anemometer, rain gauge and hygrometer

Here for the convenience of students I have chosen from item (e) - **global environmental issues and problems. Within this broad area chosen there are many topics.**

The major **environmental issues problems** are pollution, climate change and **global** warming, ozone layer depletion, acid rain, natural resource depletion, overpopulation, waste disposal, deforestation and loss of biodiversity. Here **set of questions to explore from two specific environmental issues climate change and global warming and Ozone Layer depletion have been listed. Similarly students can think of questions from other topics like acid rain, waste disposal etc and take up those topics if they want.**

i) Climate change and global warming

Studies about weather and climate and the ways in which they shape life on Earth have long had a place in the geography curriculum. Today, the need to understand the new ways the climate is influencing our lives is greater than before. Climate change, or global warming, is the greatest environmental threat we've ever faced. How we respond to this crisis will greatly impact both current and future generations and all other species.

Our climate system appears as an atmospheric process, but it is driven by solar energy and results from interactions among all components of the Earth system, including the oceans and land, the biosphere, the atmosphere, and Earth's frozen waters—the cryosphere.

What are climate change and global warming?

What is the greenhouse effect, and is it affecting our climate?

How our climate has changed- Evidences

Why our climate has changed -There are natural changes in our climate and Human causes

The Earth's Climate in the Past

Effects of climate change.

Adapting to climate change

ii) Ozone Layer depletion

The ozone layer is mainly found in the lower portion of the stratosphere, about 20 to 30 km (12 to 19 miles) above the earth, though the thickness varies seasonally and geographically. The ozone layer protects living things from harmful ultraviolet rays from the sun; Near the ground, ozone is an air pollutant that causes lung damage and asthma attacks.

What is **ozone**, how is it formed, and where is it in the atmosphere?

Who discovered ozone layer?

Why do we care about atmospheric **ozone**? Why is ozone layer important,

What is Ozone depletion and how does occur

What chemicals affect the ozone layer? What gases are destroying the ozone layer?

How pollution affects the ozone layer?

Why the ozone hole is over Antarctica?

When was the ozone hole discovered?

What are harmful effects of ozone depletion?

What is ozone pollution?

What is the connection between ozone depletion and climate change

How can we protect the ozone layer?

References

1. Down To Earth magazine

<https://www.downtoearth.org.in/climate-change>

2. Fundamentals of Physical geography class 11 chapter 12. NCERT text book

<http://ncert.nic.in/textbook/textbook.htm?kegy2=12-16>

3. <https://climatekids.nasa.gov/menu/big-questions/>

4. <https://climate.nasa.gov/resources/global-warming-vs-climate-change/>

5. <https://scied.ucar.edu/ozone-layer>

6. <https://www.nationalgeographic.com/environment/global-warming/ozone-depletion/>

7. <https://thewire.in/environment/climate-change-wicked-problem>

8. ISC Geography class 11. D R Khullar. Kalyani publishers

9. ICSC class 9 Textbook.

10. Changing Climates – The Impact. CSE vcd.