

LAKSHMIPAT SINGHANIA ACADEMY

TERM 1- PROJECT

SESSION - 2024-25

CLASS VIII

ENGLISH

FULL MARKS: 20

TOPIC: DEMOGRAPHIC IMPACT ON SOCIETY

India, having surpassed China as the most populous nation in the world, is facing challenges due to its fast-growing population. With over 1.4 billion people and an estimated annual growth rate of approximately 1 percent, this demographic trend has complex and far-reaching implications on human development in India. India's population is expanding at an unsustainable rate and is projected to surpass 1.5 billion people by 2030 and 2 billion people by 2050.

The country's rapid population growth puts pressure on resources and services, leading to environmental degradation, poverty, and inequality. Only through a holistic and integrated approach can India reap the benefits of demographic change and achieve equitable and sustainable development for its growing population. While the challenges are significant, it is important to recognise that population growth also provides opportunities for innovation, entrepreneurship, and socio-economic progress.

THE PROJECT- (PRITHVI AND AGNI HOUSE)

Design the cover page of a newspaper with reference to the topic assigned, using the inputs given above. Provide articles, reports along with necessary headlines. Present a digital version of the newspaper in a PDF of 1 A4 size page.

LEARNING OBJECTIVE: The learning objectives includes:

- a) To enhance the skills of reading and critical thinking
- b) To acquire more information about the demography of India
- c) To learn to observe the arrangement and style of news as presented in the newspaper.
- d) To analyse the issue and come up with solutions to resolve the same.

LEARNING OUTCOME: The learning outcomes will include:

- a) Independent research work.
- b) Collaboration.
- c) Awareness and awakening among all.

PROJECT FORMAT

- The project will be done in groups
- Each group to present their newspaper in the class.
- Every group will be given 10 minutes to display
- To submit the PDF ON TEAMS.
- To print and submit the same in a channel file on the reopening day.

RUBRICS FOR EVALUATION

CATEGORY	PERFECT- 5	GOOD- 4	SATISFACTORY- 3	COULD BE BETTER- 2 OR 1
CONTENT & RESEARCH - 5 MARKS	<ul style="list-style-type: none"> • Directly relevant • Facts are sequentially arranged • Supported with details specific to the topic • Ideas are original 	<ul style="list-style-type: none"> • Somewhat relevant • Slightly disordered arrangement of facts • Some details are supported with data specific to the topic • Some ideas are original 	<ul style="list-style-type: none"> • remotely relevant • some organization, points are scattered around, beginning and ending are unclear. • Sketchy details, hardly specific to the topic • Most of the ideas are not original 	<ul style="list-style-type: none"> • Totally unrelated • Poorly organised arrangement of facts • No logical progression • Vague beginning and ending • No original ideas
VERBAL PRESENTATION- - 5 MARKS	All the members presented a specific portion of the presentation and role play with immaculate articulation, pronunciation and diction.	Most of the members presented a portion of the project with good articulation and somewhat good pronunciation and diction.	A few members presented a portion of the project with somewhat good articulation, pronunciation and diction.	Only 1 member/ nobody presented a portion of the project with poor articulation and erroneous pronunciation and diction.

LANGUAGE & ACCURACY- - 5 MARKS	<ul style="list-style-type: none"> No grammatical errors Appropriate use of vocabulary (in both script and presentation) 	<ul style="list-style-type: none"> No grammatical errors, a few punctuation or spelling errors Most of the vocabulary is appropriate (in both script and presentation) 	<ul style="list-style-type: none"> Some grammatical errors, but the idea is conveyed successfully Some of the vocabulary is appropriate (in both script and presentation) 	<ul style="list-style-type: none"> A lot of grammatical errors Inappropriate use of vocabulary (in both script and presentation)
NEATNESS & OVERALL PRESENTATION- - 5 MARKS	<ul style="list-style-type: none"> Makes excellent use of technical expertise, colour combinations and eloquent verbal presentations. 	<ul style="list-style-type: none"> Makes good use of technical expertise, colour combinations and eloquent verbal presentations 	<ul style="list-style-type: none"> Makes Some use of technical expertise, colour combinations and eloquent verbal presentations 	<ul style="list-style-type: none"> Makes minimal use of technical expertise, colour combinations and eloquent verbal presentations.

TOPIC: ENVIRONMENTAL & ECOLOGICAL BALANCE IN INDIA

India has some of the world's most bio diverse eco zones—desert, high mountains, highlands, tropical and temperate forests, swamplands, plains, grasslands, areas surrounding rivers and an island archipelago. Periodic changes in such natural phenomena as ocean currents, water temperature and oxygen layers affect the ecological and environmental balance. Irresponsible and careless nature of Indians have complicated this balance in nature. Many writers have raised their voices over such concerns in their writings.

THE PROJECT- (JAL AND VAYU HOUSE)

Identify a story or a novel which revolves around the issues of environmental and ecological problems in India. Narrate the story in brief. Write a **BOOK REVIEW** analysing the plot, the role of characters and the use of language. Present it as creatively as possible in a PPT.

LEARNING OBJECTIVE: The learning objectives includes:

- e) To enhance the skills of reading and critical thinking
- f) To acquire more information about the ecology and environmental issues in India
- g) To learn to write a book review
- h) To enhance speaking and presentation skills

LEARNING OUTCOME: The learning outcomes will include:

- d) Independent research work.
- e) Collaboration.
- f) Awareness and awakening among all.

PROJECT FORMAT

- The project will be done in groups
- Each group to present the book review in class.
- Every group will be given 10 minutes to display
- To submit the PPT ON TEAMS. (10 SLIDES)
- To print and submit the same in a channel file on the reopening day.

RUBRICS FOR EVALUATION

CATEGORY	PERFECT- 5	GOOD- 4	SATISFACTORY- 3	COULD BE BETTER- 2 OR 1
CONTENT & RESEARCH - 5 MARKS	<p>Directly relevant</p> <p>Facts are sequentially arranged</p> <p>Supported with details specific to the topic</p> <p>Ideas are original</p>	<p>Somewhat relevant</p> <p>Slightly disordered arrangement of facts</p> <p>Some details are supported with data specific to the topic</p> <p>Some ideas are original</p>	<p>Remotely relevant</p> <p>Some organization, points are scattered around, beginning and ending are unclear.</p> <p>Sketchy details, hardly specific to the topic</p> <p>Most of the ideas are not original</p>	<p>Totally unrelated</p> <p>Poorly organised arrangement of facts</p> <p>No logical progression</p> <p>Vague beginning and ending</p> <p>No original ideas</p>
VERBAL PRESENTATION - - 5 MARKS	<p>All the members presented a specific portion of the presentation and role play with immaculate articulation, pronunciation and diction.</p>	<p>Most of the members presented a portion of the project with good articulation and somewhat good pronunciation and diction.</p>	<p>A few members presented a portion of the project with somewhat good articulation, pronunciation and diction.</p>	<p>Only 1 member/ nobody presented a portion of the project with poor articulation and erroneous pronunciation and diction.</p>
LANGUAGE & ACCURACY- - 5 MARKS	<ul style="list-style-type: none"> • No grammatical errors • Appropriate use of vocabulary (in both script and presentation) 	<ul style="list-style-type: none"> • No grammatical errors, a few punctuation or spelling errors • Most of the vocabulary is appropriate (in both script and presentation) 	<ul style="list-style-type: none"> • Some grammatical errors, but the idea is conveyed successfully • Some of the vocabulary is appropriate (in both script and presentation) 	<ul style="list-style-type: none"> • A lot of grammatical errors • Inappropriate use of vocabulary (in both script and presentation)

NEATNESS & OVERALL PRESENTATION- - 5 MARKS	<ul style="list-style-type: none"> Makes excellent use of technical expertise, colour combinations and eloquent verbal presentations. 	<ul style="list-style-type: none"> Makes good use of technical expertise, colour combinations and eloquent verbal presentations 	<ul style="list-style-type: none"> Makes Some use of technical expertise, colour combinations and eloquent verbal presentations 	<ul style="list-style-type: none"> Makes minimal use of technical expertise, colour combinations and eloquent verbal presentations.
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SCIENCE-

PHYSICS

FULL MARKS: 06

HOUSE- (PRITHVI & AGNI)

DEMOGRAPHIC IMPACT ON SOCIETY

LEARNING OBJECTIVES: Students will learn about

- The types of alternative sources of energy using water resources.
- Harnessing of alternative sources of energy

If you want to be eco-friendly, you should be driving an electric car. Right?

Unfortunately, it is not as simple as that. While electric cars do not pollute the air around them like a combustion engine does, they do need to be charged, leading to questions such as what energy source the electricity is coming from and whether that energy source is clean. The overall evaluation of an energy source is based not only on how clean it is; it also has to be reliable, accessible, and affordable.

- Name two alternative sources of energy which uses water below the earth and water of Ocean.
- How can those above mentioned energy be harnessed?
- How does conventional sources of energy pose a threat to human health? Discuss in detail.
- Make a model of any of the two kinds of sources of energy you have mentioned.

LEARNING OUTCOME: Students must have learnt about:

- The types of alternative sources of energy using water resources.
- Harnessing of alternative sources of energy
- <https://www.energy.gov/eere/geothermal/geothermal-basics#:~:text=Geothermal%20energy%20is%20heat%20energy,depths%20below%20the%20earth's%20surface>.
- <https://www.eia.gov/energyexplained/hydropower/ocean-thermal-energy-conversion.php>

HOUSE- (VAYU & JAL)

ENVIRONMENTAL AND ECOLOGICAL BALANCE IN INDIA

LEARNING OBJECTIVES: Students will learn about

- The effects of Ionizing radiation on the environment
- Different types of Ionizing Radiation

Many forms of “radiation” are encountered in the natural environment and are produced by modern technology. Most of them have the potential for both beneficial and harmful effects. Even sunlight, the most essential radiation of all, can be harmful in excessive amounts. Radiation can be divided into two main categories: ionizing and non-ionizing. Non-ionizing radiation, such as visible light and radio waves, do not have enough energy to break apart atoms or molecules and are generally considered safe. Ionizing radiation, on the other hand, has enough energy to remove electrons from atoms or molecules, which can have harmful effects on living organisms and cause biological harm thus disrupting the ecosystem. Most of the attention is given to the category of radiation known as “**ionizing radiation**.” Ionizing radiation includes x-rays, gamma rays, alpha particles, beta particles, neutrons, and the varieties of cosmic ray.

1. How does radiation pose a threat to human health? Discuss in detail.
2. What are the different types of Ionizing Radiation?
3. Discuss about the properties and Limitations of the types of Ionizing Radiation.
4. Make a poster on the ways to mitigate the effects of radiation exposure.

LEARNING OUTCOME: Students must have learnt about:

- The effects of Ionizing radiation on the environment
- Different types of Ionizing Radiation

<https://www.sciencedirect.com/science/article/abs/pii/S0265931X16302132>

<https://www2.lbl.gov/abc/wallchart/teachersguide/pdf/Chap15.pdf>

<https://www.iaea.org/sites/default/files/radiation0204.pdf>

<https://www.omicsonline.org/open-access-pdfs/a-brief-note-on-the-effects-of-radiation-on-environment.pdf>

CHEMISTRY

FULL MARKS: 06

HOUSE- (PRITHVI & AGNI)

DEMOGRAPHIC IMPACT ON SOCIETY

LEARNING OBJECTIVES: Students will learn about

- The impact of fossil fuels on the society
- The impact of population on production of waste and increase in pollution.

Human population growth (demography) impacts the Earth system in a variety of ways, including: Increasing the extraction of resources from the environment

These resources include fossil fuels (oil, gas, and coal), minerals, trees, water, and wildlife, especially in the oceans.

1. Name any 2 fossil fuels and their impact on the society.

2. With more people comes more waste and pollution, which can lead to water contamination, air pollution, and other environmental issues.

Describe (with relevant pictures) any one of the above issues.

3. Make an artwork or any costume from waste items.

LEARNING OUTCOME: Students have learnt about:

- the impact of fossil fuels on the society
- the impact of population on production of waste and increase in pollution.

<https://earth.org/overpopulation-sustainability/#:~:text=With%20more%20people%20comes%20more,million%20premature%20deaths%20each%20year>

<https://populationconnection.org/resources/population-and-climate>

HOUSE- (VAYU & JAL)

ENVIRONMENTAL AND ECOLOGICAL BALANCE IN INDIA

LEARNING OBJECTIVES: Students will learn about

- nuclear power- it's advantages and disadvantages
- the impact of nuclear power on society

The environmental impact of nuclear power remains a contentious issue among scientists, activists, and policymakers. On the one hand, it can provide energy at scale without burning fossil fuels. On the other hand, system failures have tragic consequences and there is as yet no good solution for dealing with nuclear waste.

1. What is nuclear power? How is it harnessed?
2. Write 2 advantages and 2 challenges of nuclear power.
3. How does nuclear power affect society and environment? Support your answer with relevant data/pictures.
4. Prepare a poster on the slogan: " Nuclear power - Boon or bane".

LEARNING OUTCOME: Students must have learnt about:

- nuclear power- it's advantages and disadvantages
- the impact of nuclear power on society

<https://www.energy.gov/ne/articles/advantages-and-challenges-nuclear-energy>

<https://dae.gov.in/nuclear-power-myths-and-facts/>

<https://www.azocleantech.com/article.aspx?ArticleID=1521>

HOUSES – AGNI & PRITHVI**DEMOGRAPHIC IMPACT ON SOCIETY****LEARNING OBJECTIVES: -**

The Project will enable the students to:-

- Understand the impact of increasing population with reference to
 - a) Agriculture
 - b) Health care system
- They will be able to generate ideas how the demographic impact can be utilized for beneficial purpose.

Our country's population has nearly doubled between 1975 and 2010. With a population of 1.4 billion, India accounts for about 17.5% of the world's population -one of every 6 people on the planet living in India.

1. State the impact of population explosion on Agriculture Industry. Support your answer with relevant data.
2. Growing population makes access to quality healthcare a challenge. Explain.
3. List 2 ways how the demographic transition of India can be used in the country's favour.

LEARNING OUTCOME-

After completion of the project, the students are able to –

- Understand the perils of population explosion.
- Explain how the demographic impact can be turned towards the favour of our country.

HOUSES – VAYU & JAL**ENVIRONMENTAL AND ECOLOGICAL BALANCE IN INDIA****LEARNING OBJECTIVES-**

The Project will enable the students to-

- To analyse the reasons for environmental imbalance and its implications.
- To assist the different ways to counter the imbalance.

At present, we are experiencing many dangerous global phenomena which are detrimental to the environment a number of them being triggered by various human activities.

1. How are we responsible for the environmental imbalance through the years?
Support your answer with relevant data.
2. A change that occurs in one component, leads to changes in the whole environment. Justify with suitable examples.
3. How can we make a mark towards reducing the carbon footprint?(three points)

LEARNING OUTCOME-

- Students will be able to understand the relationship of the living organisms with the environmental factors and comprehend their sustainable utilization.
- Create ways to contribute towards more balanced ecosystem.

EVALUATION RUBRICS FOR PHYSICS AND CHEMISTRY:

	3x2	3x1.5	3x1
Details of Research on the topic	Content is well researched, genuine with detailed explanation	Not well researched, but the concepts are well explained	Neither well researched, nor well explained
Presentation	Well presented	Average	Sketchy
Creativity and Art Integration	The concept in submission is creative, especially as compared with other submissions	The concept in the submission is somewhat creative	The concepts in the submission lacks creativity

EVALUATION RUBRICS FOR BIOLOGY:

	4x2	4x1.5	4x1
Details of Research on the topic [2]	Content is well researched ,genuine with detailed explanation	Not well researched , but the concepts are well explained	Neither well researched , nor well explained
Presentation [2]	Well presented	Average	Sketchy
Creativity and Art Integration [2]	The concept in submission is creative,	The concept in the submission is somewhat creative	The concepts in the submission lacks creativity

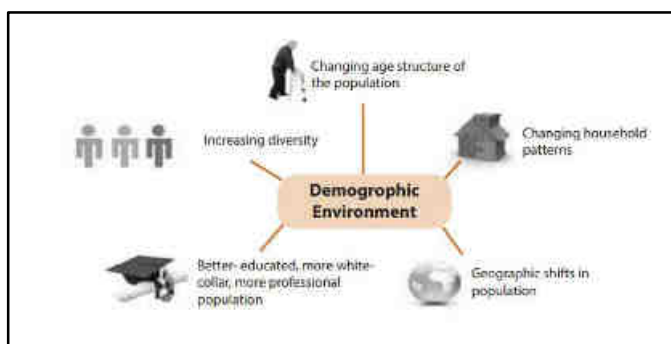
	especially as compared with other submissions		
Ethical impact [2]	Concept well related to life problems	Concept is related to life problems is not well explained.	Lack of problem solving aspect.

SUBJECT: HISTORY & CIVICS

HOUSE: (PRITHVI & AGNI)

Topic: Demographic impact on society

Demographics are statistics that describe populations and their characteristics. Demographic analysis is the study of a population-based on factors such as age, race, and gender. Governments, corporations, and non-government organizations use demographics to learn more about a population's characteristics for many purposes, including policy development and economic market research.



Born in 2011 – 12, you belong to Gen Z and are commonly referred to as the first fully “digitally native” generation. You have grown up with social media and smartphones and are used to living in a digital-first world.

Generations have been defined into various categories by their birth years. Your research will help you to find that dates overlap and names vary.

Note: Generation names are based on when members of that generation become adults (18-21).

Generations	Born	Current Ages
Gen Z	1997 – 2012	12 – 27
Millennials	1981 – 1996	28 – 43
Gen X	1965 – 1980	44 – 59
Boomers II *	1955 – 1964	60 – 69
Boomers I*	1946 – 1954	70 – 78
Post War	1928 – 1945	79 – 96
WWII	1922 – 1927	97 – 102

Prepare a research report on each generation based on the historical perspective of the age that they were born into.

Organize a mind map to display how the achievements of each generation have laid the cornerstone of the next generation.

(Both are to be submitted using any Word Processor document.)

This will help you to respect every generation and know the strength of the previous generations and their contribution to the present society.

LEARNING OBJECTIVE:

- a) To discover India’s demographic diversity.
- b) To promote digital research
- c) To prepare a report that is logical, descriptive and contains accurate analysis

LEARNING OUTCOME:

- Appreciate and value generation gap by respecting every generation and know the strength of the previous generations and their contribution to the present society.
- Capability to extract relevant information and present the same in simple style.
- Independent research work.
- Collaboration.

	6	4	2	1
Content	a) Report contains correct historical perspective of all 6 generations under study. b) Contains the mind map to show the achievements of the 6 generations.	a) Report contains correct historical perspective of 5 – 4 generations under study. b) Contains the mind map to show the achievements of 5 – 4 generations.	a) Report contains correct historical perspective of 3 – 2 generations under study. b) Contains the mind map to show the achievements of 3 – 2 generations.	a) Report contains correct historical perspective of 1 generation under study. b) Contains the mind map to show the achievements of 1 generation.
Presentation & Team Work	-	-	Presentation of Report and Mind Map includes relevant photographs/ charts/ diagrams. Overall impact of the project is attractive and	Poor attempt has been made to make the presentation of Report and Mind Map. Teamwork is not visible.

			appealing to the viewers. Teamwork is visible. Project is compiled up to the mark	Project is not compiled up to the mark.
Bibliography	. -	-	Independent research work by all students is evident. Correct recording of all research sources mentioned.	Not very clear proof of research. All research sources have not been recorded.

Topic: Environmental and ecological balance in India

HOUSE - (VAYU, JAL)

Population growth and economic development are contributing to many serious environmental problems in India. These include pressure on land, deforestation and water scarcity and water pollution.

Climate change, nutrition and food security have an intricate relationship – approximately 800 million people worldwide don't have reliable access to food.

Indigenous people are crucial stakeholders in preserving, and in some cases, promoting, and even restoring biodiversity in areas where they have depended on local surroundings for a range of resources, for a long time.

The reverence that local communities have for Nature has been vital for the government's sustained success and other agencies' conservation efforts.

However, the government's conservation activities have created fear amongst the indigenous people for losing their existence in lands that they had inhabited for decades.

The Indian Forest Service (IFS) is one of the three All India Services conducted by the Union Public Service Commission (UPSC), As a young IFS officer, you have been posted in Mayurbhanj district of Odisha.

Study the topography of the region and design an inclusive development plan for the tribal inhabitants of the region that will help them to conserve their forest reserves and ensure economic development in the region. The Development Plan is to be submitted using any Word Processor document.

Objective of the development is substantial reduction in poverty and unemployment of the people living in the forested areas. This must include:

- a) Creation of productive assets in favour of scheduled tribes to sustain the growth likely to accrue through development efforts.
- b) Human resource development of the scheduled tribes by providing adequate educational and health services; and
- c) Provision of physical and financial security against all types of exploitation and oppression.

Prepare the Report in a word processor.

Through this project, you will value the paradigm truth – **empower the guardians of the earth, do not rob them.**

LEARNING OBJECTIVE:

- a) To discover the relation between population growth and economic development.
- b) To be able to appreciate the reverence that indigenous communities have for Nature.
- c) To promote digital research
- d) To prepare a report that is logical, descriptive and contains accurate analysis

LEARNING OUTCOME:

- Appreciate and value the paradigm truth – empower the guardians of the earth.
- Capable of demonstrating greater respect and appreciation for an inclusive society.
- Capability to extract relevant information and present the same in simple style.
- Independent research work.
- Collaboration.

EVALUATION RUBRICS

	6	4	2	1
Content	a) Report contains correct description of topography along with a map. b) 3 development objectives fulfilled.	a) Report contains correct description of topography but map is missing. b) 3 development objectives fulfilled.	a) Report contains correct description of topography but map is missing. b) 2 development objectives fulfilled.	a) Report fails to describe the topography, map is also missing. b) 1 development objective fulfilled.
Presentation & Team Work	.	-	Presentation of Report and Map includes relevant photographs/ charts/ diagrams. Overall impact of the project is	Poor attempt has been made to make the presentation of Report and Map. Teamwork is not visible. Project is not compiled chronologically.

			attractive and appealing to the viewers. Teamwork is visible. Project is compiled well	
Bibliography	. -	-	Independent research work by all students is evident. Correct recording of all research sources mentioned.	Not very clear proof of research. All research sources have not been recorded.

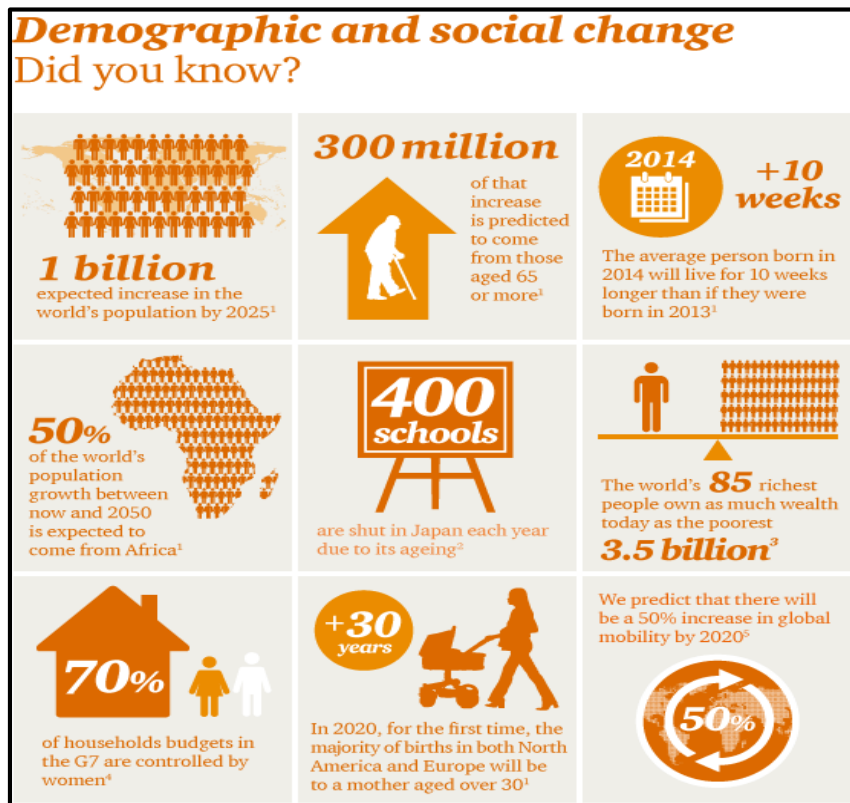
GEOGRAPHY

FULL MARKS: 10

TOPIC: DEMOGRAPHIC IMPACT ON SOCIETY

HOUSES: PRITHVI HOUSE and AGNI HOUSE

“Demography is destiny” is an oft-cited phrase that suggests the size, growth, and structure of a nation’s population determines its long-term social, economic, and political fabric. The phrase highlights the role of demographics in shaping many complex challenges and opportunities societies face, including several pertinent to economic growth and development. Demographic change also has a powerful impact on our economies, on our welfare and health systems as well as on housing and infrastructure needs.



PROJECT FORMAT:

- ✓ Projects need to be done in groups.
- ✓ Support the project with relevant pictures.
- ✓ Students will make PowerPoint presentation (maximum 8 slides including cover page, content and bibliography).

Following questions to be answered by both **PRITHVI HOUSE** and **AGNI HOUSE**

Content –

Q1. In an outline political map of India, mark the following –

- a) Any one state having highest population density.
- b) Any one state having lowest population density.

Q2. What do you understand by demography? What are the positive impacts of demographic transition?

SUBJECT INTEGRATION: History, Life-skills, Political Science, Economics, Mathematics, A.I., Sociology, Psychology and English.

LEARNING OBJECTIVE:

The students will be able to understand –

- ✓ Population dynamics.
- ✓ Understand basic demographic measures.
- ✓ Know how to choose among alternative demographic measures to describe a population.
- ✓ Be able to identify alternative sources of demographic data.

LEARNING OUTCOME: The learning outcome will include –

- ✓ Independent research work.
- ✓ Collaboration.
- ✓ Awareness and awakening among all.

LINKS:

<https://www.cato.org/cato-journal/spring/summer-2018/demographics-their-implications-economy-policy>

<https://www.adb.org/publications/demographic-transition-and-its-impacts-asia-and-europe>

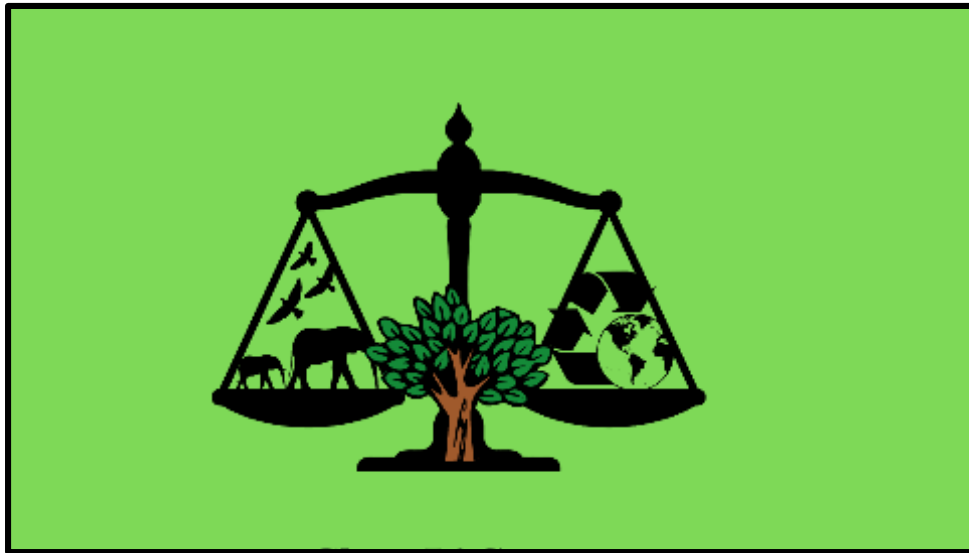
<https://www.studysmarter.co.uk/explanations/social-studies/global-development/demographic-change/>

<https://www.investopedia.com/articles/investing/012315/how-demographics-drive-economy.asp>

TOPIC: ENVIRONMENTAL AND ECOLOGICAL BALANCE IN INDIA

HOUSES: VAYU HOUSE and JAL HOUSE

Many factors adversely affect the ecological balance, hence ecological imbalance is a multi-causal phenomenon. Natural factors called “Acts of Gods” are the factors over which human beings have no control. These factors namely volcanic eruptions, floods, forest fires, Tsunami, cyclones, earthquakes etc bring untold misery to the humanity. Anthropogenic activities too affect the ecological balance. Careless cutting of the trees, construction of gigantic reservoirs, altering the path of rivers, mining, hunting, over-exploitation of natural resources and many other factors can upset the ecological balance. However, too much interference of man in the environmental process is a recent phenomenon. The early men lived in harmony with nature and as a part of nature. In the early stage of evolution, Homo sapiens lived like animals and were obtaining their livelihood directly from nature without modification.



PROJECT FORMAT:

- ✓ Projects need to be done in groups.
- ✓ Support the project with relevant pictures.
- ✓ Students will make PowerPoint presentation (maximum 8 slides including cover page, content, and bibliography).

Following questions to be answered by both **VAYU HOUSE** and **JAL HOUSE**

Content –

Q1. Draw a flowchart depicting any one of the ecosystem, mentioned below –

- a) Ocean ecosystem.
- b) Terrestrial ecosystem.

Support with relevant pictures.

Q2. What do you understand by ecological balance? Why is ecological balance an indispensable need for human survival?

SUBJECT INTEGRATION: History, Life-skills, Economics, Mathematics, A.I., Biology, Zoology, Botany, and English.

LEARNING OBJECTIVE:

The students will be able to understand –

- ✓ Relations and interdependencies between man and nature.
- ✓ Identify how natural changes can affect environmental balance.
- ✓ How it is important for health and stability of ecosystem.

LEARNING OUTCOME: The learning outcome will include –

- ✓ Independent research work.
- ✓ Collaboration.
- ✓ Awareness and awakening among all.

LINKS:

<https://ijcrt.org/papers/IJCRT2301392.pdf>

<https://www.economicdiscussion.net/india/ecological-imbalance-in-india-5-main-factors/19125>

https://connectjournals.com/file_full_text/2803001H_407-409.pdf

https://www.researchgate.net/publication/334588415_Ecological_Imbalance_Factors_in_India

Rubrics for Evaluation

Parameters	5	4	3	2	1
Content (4)	–	Applicable to Theoretical knowledge and all facts are correct.	Applicable to Theoretical knowledge and all facts are correct. One or two factual errors	Applicable to Theoretical knowledge and all facts are correct. Few factual errors.	Applicable to theoretical knowledge and all facts are not at all relevant to the topic.
Presentation (3)	–	–	Overall impact of the project is attractive and appealing to the viewers. Students are well prepared. Teamwork is visible. Project is compiled up to the mark.	Overall impact of the project is quite appealing to the viewers. Students are well prepared. Teamwork is visible. Project is fairly compiled.	Some attempt has been made to make the presentation appealing to the viewers. Students are well prepared. Teamwork is visible. Project is not compiled up to the mark.
Graphics/Photographs/Charts/Relevance to the topic (2)	–	–	–	Presentation includes relevant photographs/charts/diagrams.	Graphics & Chart are not clear. They are irrelevant to the topic.
Team Work (1)	–	–	–	–	Independent research work and collaboration. Tried to adapt the new technology.

DEMOGRAPHIC IMPACT ON SOCIETY**BY PRITHVI HOUSE AND AGNI HOUSE**

Demography is the branch of social science that analyses the population, the changes in its size and its structural aspects. Every country collects information on the number of people in the country, their age, sex and socio-economic status and analyse such data at regular intervals of time.

India having surpassed China as the most populous nation in the world, is facing challenges due to its fast-growing population. India's population is expanding at an unsustainable rate and is projected to surpass 1.5 billion people by 2030 and 2 billion people by 2050.

Economically the expanding population necessitates the creation of adequate employment opportunities to accommodate the growing workforce. As per the Center for Monitoring Indian Economy, unemployment in India is at an all-time high of 8.5 percent.

LEARNING OBJECTIVES:

Students will be able to:

- Research the population scenario of India over a few decades.
- Represent the data graphically.
- Relate to the Unemployment Rate.

1. Make a Table showing Approximate Population, Actual Population, Male Population, Female Population, Population Growth (in percentage) and Sex Ratio of India for the years 1991, 2001, 2011, 2021.

2. Make two Double Bar Graphs for the above four years representing

(i) Approximate Population and Actual Population

(ii) Male and Female Population

3. Prepare a Pie Chart on India's Unemployment Rate in 2022.

<https://www.macrotrends.net/global-metrics/countries/IND/india/population>

<https://countryeconomy.com/demography/population/india?year=1991>

<https://courses.lumenlearning.com/wm-macroeconomics/chapter/calculating-the-unemployment-rate/>

LEARNING OUTCOMES:

Students will

- Interpret the meaning of the carrying capacity of a population's environment.

- Population density data can be used to quantify demographic information and to assess relationships with ecosystems, human health and infrastructure.
- Relate mathematics with geography

ENVIRONMENTAL AND ECOLOGICAL BALANCE

BY VAYU HOUSE AND JAL HOUSE

Ecological balance or ecological equilibrium is an ecological concept that describes how ecosystems exist in a dynamic state of balance or equilibrium. **Dynamic equilibrium** means that despite disturbances, which may be natural or anthropogenic (human-caused), a balanced ecosystem remains stable because it is in a constant state of flux, perpetually compensating for changes.

Natural or human-caused disturbance disrupts the natural balance of an eco-system.

Due to many human activities, the environment gets polluted, number of animals are reduced and as a result the ecological balance is disturbed.

LEARNING OBJECTIVES:

Students will be able to:

- Research the different causes of pollution and their graphical representation.
- Understand what is Air Quality Index and the Position of different countries with respect to AQI.
- Number of animals getting endangered day by day.

1. Make a Pie Chart on the different causes of Air Pollution.

2. What is Air Quality Index (AQI)?

Make two Bar Graphs on-

(i) 5 countries in the world with maximum AQI

(ii) 5 cities of India with maximum AQI

3. Make a Bar Graph to showcase the number of critically endangered animals around the globe.

https://en.wikipedia.org/wiki/Air_pollution_in_India

<https://www.aqi.in/world-most-polluted-countries>

<https://www.iqair.com/india>

<https://thelogicalindian.com/story-feed/awareness/more-animals-join-global-red-list/>

LEARNING OUTCOMES:

Students will find out

- Causes of pollution.
- Relate mathematics with geography

MATHEMATICS PROJECT GRADING RUBRIC

CATEGORY	GREAT WORK (4)	GOOD WORK (3)	SATISFACTORY (2)	COULD BE BETTER (1)
TOPIC CONTENT – ACCURACY (4)	Content regarding Population, Population Growth well explained. All facts are Accurate.	Content regarding Population, Population Growth well explained. 90 – 95% of the facts are accurate.	Explanation needs Improvement. 80 – 89% of the facts are accurate.	More points need to be added. Less than 80% of the facts are accurate.
WRITING- VOCABULARY EDITING-LANGUAGE (4)	Use of mathematical terms in the proper way. Presentation is Free from grammatical errors	Use of few mathematical terms in the proper way. The presentation may have one or two grammatical errors	Less use of mathematical terms in the proper way. The presentation may have few grammatical errors	No Use of mathematical terms in the proper way. There are many grammatical errors
GRAPHICS- FORMULAE (4)	Graph and Pie charts go well with the data and there is good mix of text and graphics.	Graph and Pie charts go well with the text , but they are inappropriately sized, too small or hard to interpret.	Graph and Pie charts go well with the text , but they are too few and the project seems text heavy.	There are no Graph and Pie charts or they do not go with the topic.
OVERALL PRESENTATION (4)	The presentation Is exceptionally attractive, in terms of design, layout and neatness.	The presentation is attractive, in terms of design, layout and neatness.	The presentation is acceptably attractive, though it may be a bit messy.	The project is distractingly mess or very poorly designed.
USE OF IMAGES AND COLOURS (4)	Diagrams are properly done with the correct choice of colours	Diagrams are done with the colours. Combination of colours could have been better.	Diagrams are not done neatly with the correct choice of colours	Diagrams are not done neatly with the correct choice of colours. Needs a lot of improvement in terms of presentation and neatness.

COMPUTER EDUCATION

FULL MARKS: 20

LEARNING OBJECTIVE:

- Understand the impact of digital literacy on our Indian society.
- They will be involved in a drive of making their surroundings digitally literate.
- Design an infographic collaboratively with their creativity skill and empathy.
- Learn a new application and enhance their concept.

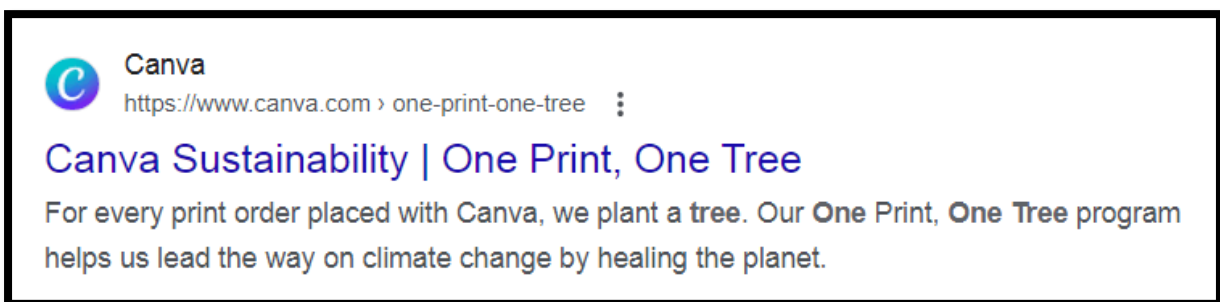
LEARNING OUTCOME:

Students will be able to-

- Develop 21st century's design thinking skill.
- Handle canva - A free-to-use online graphic design tool. .
- Make
 - Our country/ world a better place to live by planting a tree (Vayu & Jal)
 - At least one person in their surrounding digitally literate. (Agni & Prithvi)
- Present
 - Their tree plantation drive through an infographic. (Vayu & Jal)
 - Their digital literacy drive (Agni & Prithvi)

Topic: Environmental and ecological balance in India [Tree Plantation]
(House- Vayu, Jal)

Introduction:-



The number of trees cut down for a single sheet of paper can vary depending on the type of tree and the paper-making process. However, on average, it takes about 24 trees to make 1 ton of uncoated non-recycled printing and office paper.

Not only the printing papers, trees are cut also for Toilet Paper Roll, paper bags, e shopping packaging etc. There are many causes of this problem – climate change, loss of habitat, over-harvesting, and deforestation. But one thing that is clear is that you need to do something about it NOW!

To Do:-

- i. Using canva create a multipage infographic for **promoting tree plantation**. Each member of the house will contribute at least one page each in this.
- ii. **Page 1-** Introduction stating why tree plantation in India is so important. Class section and House Name will also be mentioned in this page. Bibliography for any resources used.
- iii. **Remaining pages-** during summer vacation, take initiative to plant a tree at your home/ garden/ locality.

(If you already done this activity for any other subject, kindly ignore this step and follow the other steps of the project)

- iv. Based on the activity done in previous step, add a page of yours with the following basic contents:- Your name, name of the plant you have planted. Describe how this will be beneficial for your country. Attach a picture of yours while planting/ with the tree.
- v. All will format their individual pages keeping the aesthete and integrity of the entire infographic as a whole.

Topic: Demographic Impact on Society [Digital Literacy in India]
(House- Agni, Prithvi)

Introduction:-

According to the Indian National Statistical Office, Only 38% of households in India are digitally literate. In urban areas, digital literacy is relatively higher at 61% as compared to just 25% in rural areas.

The government of India's digital literacy initiatives aim to empower the masses by promoting technology adoption and increasing digital literacy across the country. The government has initiated several missions like The National Digital Literacy Mission (NDLM) to bridge the digital divide and ensure that every citizen has access to digital resources and the skills required to utilize them effectively.

To Do:-

- i. Using canva create a multipage infographic for **promoting digital literacy**. Each member of the house will contribute at least one page each in this.
- ii. **Page 1-** Introduction stating importance of digital literacy in India. Class section and House Name will also be mentioned in this page. Bibliography for any resources used.
- iii. **Remaining pages-** during summer vacation, make one person around you digitally literate by teaching how to handle computer/ mobile phone/ Internet/ email or any other application.
- iv. Add a page of yours with the following basic contents:- Your name, name of the person whom you made digitally literate. Describe what lesson you have imparted to that person. Attach a picture of yours and the person.
- v. All will format their individual pages keeping the aesthete and integrity of the entire infographic as a whole.

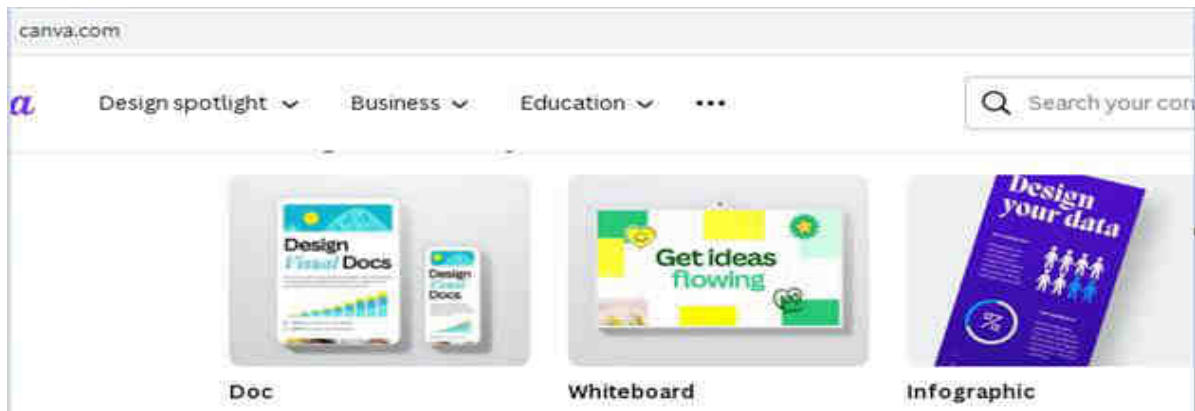
Note: Must add the consent statement at the bottom of your page- "I have no objection of sharing the picture for educational purpose."

Use of canva application:-

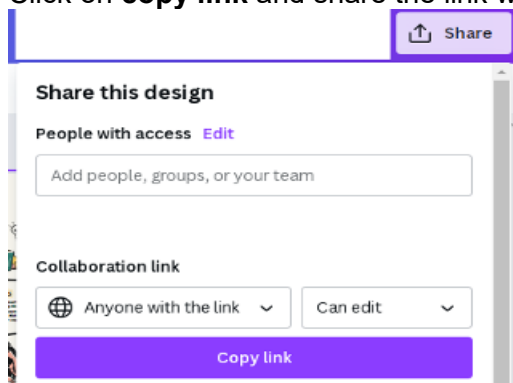
- i. Use canva.com in your browser.

Note: Avoid using paid features (represents by crown picture)

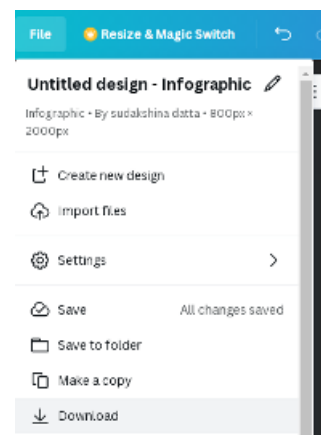
- ii. Login/ Sign up with any one member's email id.



- iii. Unanimously choose a template from Templates list at the left panel.
- iv. click on the untitled design and rename it as **ClassSec_HouseName**.
- v. Click **share** option on right top corner, do necessary changes as shown in the image below.
- vi. Click on **copy link** and share the link with rest of the house members.



- vii. Each member will add a page in the infographic by clicking **+Add Page** option at the bottom of the original infographic.
- viii. Fill up your page by adding required details as asked above.
- ix. Together edit and format the page as per requirement.
- x. Once final infographic is ready **download the same as pdf (print) format**.



- xi. One of the house member will upload the same in Teams within due date.(Teams details will be shared by HRTs)

Note: Must add the consent statement at the bottom of your page- "Both of us have no objection of sharing the picture for educational purpose."

Resources:-www.canva.com<https://pib.gov.in/PressReleaseIframePage.aspx?PRID=1885365>https://dtnbwed.cbwe.gov.in/images/upload/Digital-Literacy_3ZNK.pdf<https://8billiontrees.com/>**Marking Scheme Rubrics:-**

Criteria	Marks: 5	Marks: 3	Mark: 1
Originality and Content alignment of the info graphic (4)	It is highly imaginative or creative info graphic and effectively demonstrates adaptability to the topic provided	Conveys a few creative, imaginative, or insightful ideas in the info graphic and somewhat demonstrates adaptability to the topic provided	Reflects negligible creative, substantive, or imaginative ideas out of the ordinary info graphic and did not demonstrate any adaptability to the topic provided
Appropriate use of ICT Skill (4)	The info graphic reflects the maximum use of suggested tools to get the desired output	The info graphic reflects the use of some suggested tools to show acceptable understanding	The info graphic reflects the use of few suggested tools to show acceptable understanding
Contribution towards the Digital literacy drive (4)	Output reflects deep involvement of the pupil in this digital literacy drive	Output reflects basic involvement of the pupil in this digital literacy drive	Output reflects no involvement of the pupil in this digital literacy drive
Consent documentation (4)	Clear documentation of consent obtained	Consent obtained with incomplete information.	No evidence of consent available.

(2024-25)

SUBJECT- HINDI 2ND LANGUAGE

House – Prithvi and Agni

विषय - जनसंख्या विस्फोट का समाज पर प्रभाव

‘साहित्यकार युग दृष्टा होता है।’ - इसी उक्ति को चरितार्थ करते हुए लीलाधार शर्मा ‘पर्वतीय’ जी की कलम ने आज से वर्षों पूर्व हमारे वर्तमान को अपनी कहानी ‘भीड़ में खोया आदमी’ में पिरो लिया था। यह कहानी जनसंख्या विस्फोट का सशक्त उदाहरण है। प्रस्तुत कहानी की आलोचन सहित वर्तमान परिप्रेक्ष्य में उसके उद्देश्य एवं मौलिकता को स्पष्ट करते हुए चित्रात्मक पीपीटी तैयार कीजिए।

Learning Objectives

- जनसंख्या विस्फोट से हो रही हानियों के बारे में अवगत करना।
- समाज में साहित्यकार की अहं भूमिका पर प्रकाश डालना।
- आलोचनात्मक दृष्टिकोण का विकास करना।
- हिन्दी साहित्य की नई रचनाओं से परिचय तथा उपयुक्त भाषा-कौशल का विकास।

Learning Outcomes

- समसामयिक विषयों के प्रति जानकार हुए।
- समाज में संतुलन के महत्व और विकास के सही अर्थ से परिचित हुए।
- सृजनात्मकता का विकास हुआ।
- स्थितियों की परख तथा उपयुक्त भाषा-कौशल का विकास हुआ।

House – Vayu and Jal

विषय - असंतुलित पर्यावरण

बिगड़ते असंतुलित पर्यावरण ने विश्व पारिस्थितिक संतुलन को बिगाड़ दिया है जिसके कारण हमें कई मुसीबतों का सामना करना पड़ रहा है। बढ़ती गर्मी, अनावृष्टि, अतिवृष्टि इसी के परिणाम

हैं जिससे आगामी जीवन को खतरा है। इसके प्रति जागरूकता लाने का प्रयास करते हुए ऑनलाइन कॉमिक बनाइए।

Learning Objectives

- बिगड़ते असंतुलित पर्यावरण और बिगड़ते विश्व पारिस्थितिक संतुलन के प्रति विद्यार्थियों को जागरूक करना।
- संतुलन के अभाव में आगामी संकट के प्रति सचेत करना।
- प्रकृति के विनाश के प्रति सजग एवं सचेत करना।
- मौलिकता, रचनात्मकता तथा उपयुक्त भाषा-कौशल का विकास।

Learning Outcomes

- समसामयिक विषयों के प्रति जानकार हुए।
- बिगड़ते असंतुलित पर्यावरण और बिगड़ते विश्व पारिस्थितिक संतुलन के समाधान के प्रति जानकार हुए।
- सृजनात्मकता का विकास हुआ।
- स्थितियों की परख तथा उपयुक्त भाषा-कौशल का विकास हुआ।

RUBRICS FOR EVALUATION (CLASS-VIII) HINDI

मानदंड	5	4	3	2
विषय वस्तु की प्रभावी एवं सटीक जानकारी	विषय सामग्री से जुड़े तथ्य प्रयुक्त लेखों में सटीक एवं विषयानुरूप हैं।	एक या दो तथ्यात्मक त्रुटियों के अलावा अधिकांश तथ्य सही एवं विषयानुरूप हैं।	कुछ तथ्य विषयानुरूप हैं पर तीन से अधिक त्रुटियाँ पाई गई हैं।	प्रयुक्त लेखों में विषय सामग्री स्पष्ट नहीं है।

(5)				
सचित्र प्रस्तुतीकरण एवं मौलिकता (5)	सुंदर तैयारी, टीम के सदस्यों के बीच समन्वय, सराहनीय ,प्रस्तुतिकरण स्पष्ट एवं प्रभावी।	पर्याप्त तैयारी, टीम के सदस्यों का परस्पर सहयोग देखा गया। प्रस्तुति के दौरान स्पष्टता पाई गई पर प्रभावी नहीं हो पाई।	कुछ विद्यार्थी ही लिखित विषय में सहयोग देने के लिए तैयार, टीम के सदस्यों में परस्पर सहयोग का अभाव देखा गया। लिखित अभिव्यक्ति में आत्मविश्वास की कमी पाई गई।	छात्र तैयार नहीं, ,टीम वर्क का अभाव एवं लिखित प्रस्तुति अस्पष्ट एवं विषयानुरूप नहीं।
तकनीक एवं इंटरनेट संसाधनों का रचनात्मक उपयोग, विषयानुरूप चित्र संकलन (5)	परियोजना के विषय की प्रभावी अभिव्यक्ति के लिए इंटरनेट से संकलित तथ्यों एवं तस्वीरों का अच्छा उपयोग ।	परियोजना के विषय की अभिव्यक्ति के लिए इंटरनेट से संकलित तथ्यों एवं तस्वीरों का कुछ उपयोग ।	इंटरनेट से संकलित तथ्यों एवं तस्वीरों, का उपयोग कम होने के कारण विषय की अभिव्यक्ति स्पष्ट तौर पर नहीं हो पाई।	इंटरनेट से संकलित तथ्यों एवं तस्वीरों का उपयोग नहीं होने के कारण विषयानुरूप अभिव्यक्ति नहीं हो पाई।
भाषा की उपयुक्तता समग्र प्रस्तुति (5)	प्रस्तुतीकरण में वाक्य विन्यास, वर्ण विन्यास एवं विराम चिह्न संबंधी त्रुटियों का न होना। सहज एवं बोधगम्य भाषा का उपयुक्त प्रयोग। परियोजना का समग्र प्रभाव दर्शकों के लिए रोचक और आकर्षक।	प्रस्तुतीकरण में वाक्य विन्यास, वर्ण विन्यास एवं विराम चिह्न संबंधी कुछ त्रुटियों का ही होना। विषय की सहज अभिव्यक्ति। परियोजना का समग्र प्रभाव दर्शकों का ध्यान आकर्षण करने के लिए पर्याप्त।	वाक्य विन्यास, वर्ण विन्यास एवं विराम चिह्न संबंधी त्रुटियों के कारण भाषा की उपयुक्तता का अभाव पाया जाना। परियोजना की समग्र प्रस्तुति को आकर्षक बनाने के लिए कुछ प्रयास किया गया।	वाक्य विन्यास, वर्ण विन्यास एवं विराम चिह्न संबंधी अत्यधिक त्रुटियों के कारण विषयानुरूप भाषा का प्रयोग न हो पाना । समग्र प्रस्तुति को रोचक बनाने के लिए विद्यार्थियों के प्रयास में अभाव।

LAKSHMIPAT SINGHANIA ACADEMY

PROJECT PLAN, TERM -I

2024-25

Theme : Environmental and ecological balance

House : JAL, VAYU

Integration : Art, IT, Sanskrit, Hindi, Bengali 3rd Language, History

Marks : 20

CLASS-VIII

SUBJECT – BENGALI 2ND LANGUAGE

পরিবেশের ভারসাম্য রক্ষা বর্তমানে একটি বহুল চর্চিত বিষয়। সভ্যতার অগ্রগতির সাথে সাথে আমরা প্রতিনিয়ত পরিবেশের ভারসাম্য বিঘ্নিত করে ফেলছি। সবটাই যে ইচ্ছাকৃত নয়, মানুষ নিজের অজান্তেই এমন অনেক কাজ করে ফেলে যা পরিবেশের ভারসাম্যকে নষ্ট করে দেয়। যার ফলে আমাদের নানা বিধ প্রাকৃতিক দুর্যোগের মুখোমুখি হতে হয় যেমন অতিবৃষ্টি, অনাবৃষ্টি, অত্যধিক উষ্ণতা বৃদ্ধি ইত্যাদি। এবিষয়ে জনসাধারণের মধ্যে সচেতনতা বৃদ্ধির জন্য একটি সচিত্র পত্রিকা তৈরি কর যেখানে থাকবে

- পরিবেশগত ভারসাম্য বলতে কী বোঝ?
- কীভাবে পরিবেশগত ভারসাম্য বিঘ্নিত হচ্ছে?
- পরিবেশগত ভারসাম্য বজায় রাখার উপায়
- এবিষয়ে সচেতনতামূলক একটি পোস্টার
- শিরোনাম
- প্রাসঙ্গিক চিত্র

পরিযোজনা কার্যের উদ্দেশ্য :

- পরিবেশের ভারসাম্য বলতে কী বোঝায় সে বিষয়ে অবগত হওয়া।
- কীভাবে তা বিঘ্নিত হচ্ছে সে বিষয়ে ধারণা লাভ করা।
- কীভাবে পরিবেশের ভারসাম্য রক্ষা করা সম্ভব সে বিষয়ে সচেতনতা বৃদ্ধি
- ব্যবহারিক প্রয়োগশক্তির বিকাশ

➤ সৃজনশীলতা, ভাষাশৈলী ও চিন্তাশক্তির বিকাশ।

পরিয়োজনা কার্যের কাঙ্ক্ষিত ফলাফল।:

এই পরিয়োজনা কার্যের মধ্য দিয়ে শিক্ষার্থীরা পরিবেশগত ভারসাম্য কী ও কীভাবে তার ভারসাম্য রক্ষা করে কিভাবে বিভিন্ন প্রাকৃতিক দুর্যোগের হাত থেকে মুক্তি পাওয়া যায় সে বিষয়ে শিক্ষা লাভ করবে এবং একজন সচেতন নাগরিক হিসাবে নিজেদের দায়িত্ব পালন করতে সক্ষম হবে।

RUBRICS

Skills- দক্ষতা	Competency – যোগ্যতা			
	4	3	2	1
Content (4 marks)	সকল বিষয় সঠিক ভাবে লেখা হবে এবং প্রতিটি ক্ষেত্র আলাদা ভাবে প্রতিফলিত হবে	বিষয়বস্তুর উল্লেখ অপ্রতুলতা	প্রয়োজনীয় বিষয়ের প্রতিটি ক্ষেত্রের উল্লেখ নেই	অসম্পূর্ণ কাজ
Research (4 marks)	বিষয়ের স্পষ্ট ও যথাযথ উল্লেখ	প্রয়োজনীয় বিষয়ের অসম উল্লেখ	প্রয়োজনীয় বিষয়ের অনুপস্থিতি	ভুল পদ্ধতি বেছে নেওয়া
Creativity (4 marks)	বিষয়বস্তুর সাথে সমতা বজায় রেখে মৌলিক চিন্তাশীলতা	বিষয়বস্তুর সাথে সমতা বজায় থাকলেও মৌলিকতার অভাব	বিষয়বস্তু ও নামকরণে সমতার অভাব	নামকরণের অনুপস্থিতি
Art Integration (4 marks)	পরিচ্ছন্ন কাজ, উপযুক্ত প্রচ্ছদ ভাবনা, উপযুক্ত শিল্পভাবনা	উপযুক্ত প্রচ্ছদ কার্যের অপ্রতুলতা, সৃজনশীলতার অভাব	উপযুক্ত প্রচ্ছদের অভাব	প্রচ্ছদের অনুপস্থিতি
Overall Presentation (4 marks)	সুন্দর, পরিচ্ছন্ন উপস্থাপনা	সুন্দর, পরিচ্ছন্ন উপস্থাপনা, কার্যে আত্মবিশ্বাসের অভাব	কার্যে পরিচ্ছন্নতার অভাব	বানান ভুলের বাহুল্য

LAKSHMIPAT SINGHANIA ACADEMY
INTEGRATED PROJECT
TERM -1 (2024-25)
CLASS VIII
HINDI - 3rd LANGUAGE

विषय - पारिस्थितिक संतुलन

प्रकृति मानव के लिए अनमोल धरोहर है। उसकी रक्षा न केवल हमारे भविष्य के लिए महत्वपूर्ण है अपितु हमारे स्वास्थ्य और सुरक्षा के लिए भी महत्वपूर्ण है। अतः प्रकृति के साथ एक संतुलित संबंध बनाने और उसकी रक्षा करने के लिए लोगों में संवेदनशीलता बढ़ाने की अत्यंत आवश्यकता है। इस महान उद्देश्य की प्राप्ति हेतु प्रत्येक विद्यार्थी एक पोस्टर तथा दो मौलिक नारों के साथ एक सचित्र प्रस्तुतीकरण (पीपीटी) तैयार करें।

Learning Objectives

- पारिस्थितिक संतुलन के प्रति विद्यार्थियों को जागरूक करना ।
- पारिस्थितिक संतुलन के महत्व से परिचित कराना।
- पारिस्थितिक संतुलन पर भौगोलिक स्थिति के प्रभाव से परिचित कराना।
- उद्देश्यों की परख तथा उपयुक्त भाषा-कौशल का विकास।

Learning Outcomes

- पारिस्थितिक संतुलन के प्रति विद्यार्थियों को जागरूक हुए ।
- पारिस्थितिक संतुलन के महत्व से परिचित हुए।
- पारिस्थितिक संतुलन पर भौगोलिक स्थिति के प्रभाव से परिचित हुए।
- उद्देश्यों की परख तथा उपयुक्त भाषा-कौशल के विकास में सक्षम हुए।
- सृजनात्मकता का विकास हुआ।

RUBRICS FOR EVALUATION

मानदंड	5	4	3	2
विषय वस्तु की प्रभावी एवं सटीक जानकारी (5)	विषय सामग्री से जुड़े तथ्य प्रयुक्त लेखों में सटीक एवं विषयानुरूप है।	एक या दो तथ्यात्मक त्रुटियों के अलावा अधिकांश तथ्य सही एवं विषयानुरूप है।	कुछ तथ्य विषयानुरूप हैं पर तीन से अधिक त्रुटियाँ पाई गई हैं।	प्रयुक्त लेखों में विषय सामग्री स्पष्ट नहीं है।
सचित्र प्रस्तुतिकरण (5)	अच्छे ढंग की तैयारी टीम के , सदस्यों का समन्वय प्रस्तुतिकरण स्पष्ट ,सराहनीय एवं प्रभावी	पर्याप्त तैयारी टीम , के सदस्यों का परस्पर सहयोग देखा गया। प्रस्तुति के दौरान स्पष्टता पाई गई पर प्रभावी नहीं हो पाई।	कुछ विद्यार्थी ही लिखित विषय में सहयोग देने के लिए तैयार टीम के , सदस्यों में परस्पर सहयोग का अभाव देखा गया। लिखित अभिव्यक्ति में आत्मविश्वास की कमी पाई गई।	छात्र तैयार नहीं टीम वर्क का , अभाव एवं लिखित प्रस्तुति अस्पष्ट एवं विषयानुरूप नहीं।
तकनीक एवं इंटरनेट संसाधनों का रचनात्मक उपयोग , विषयानुरूप विचित्र संकलन (5)	परियोजना के विषय की प्रभावी अभिव्यक्ति के लिए इंटरनेट से संकलित तथ्यों एवं तस्वीरों का अच्छा उपयोग ।	परियोजना के विषय की अभिव्यक्ति के लिए इंटरनेट से संकलित तथ्यों एवं तस्वीरों का कुछ उपयोग ।	इंटरनेट से संकलित तथ्यों एवं तस्वीरों का उपयोग , कम होने के कारण विषय की अभिव्यक्ति स्पष्ट तौर पर नहीं हो पाई।	इंटरनेट से संकलित तथ्यों एवं तस्वीरों का उपयोग नहीं होने के कारण विषयानुरूप अभिव्यक्ति नहीं हो पाई।
भाषा की उपयुक्तता समग्र प्रस्तुति (5)	प्रस्तुतिकरण में वाक्य विन्यास विन्यास एवं वर्ण , विराम चिह्न संबंधी त्रुटियों का न होना। सहज एवं बोधगम्य भाषा का उपयुक्त प्रयोग परियोजना का समग्र प्रभाव दर्शकों के लिए रोचक और आकर्षक।	प्रस्तुतिकरण में वाक्य विन्यासवर्ण , विन्यास एवं विराम चिह्न संबंधी कुछ त्रुटियों का ही होना। विषय की सहज अभिव्यक्ति। अ परियोजना का समग्र प्रभाव दर्शकों का ध्यान आकर्षण करने के लिए पर्याप्त।	वाक्य विन्यासवर्ण , विन्यास एवं विराम चिह्न संबंधी त्रुटियों के कारण भाषा की उपयुक्तता का अभाव पाया जाना। परियोजना की समग्र प्रस्तुति को आकर्षक बनाने के लिए कुछ प्रयास किया गया।	वाक्य विन्यास , वर्ण विन्यास एवं विराम चिह्न संबंधी अत्यधिक त्रुटियों के कारण विषयानुरूप भाषा का प्रयोग न हो पाना । समग्र प्रस्तुति को रोचक बनाने के लिए विद्यार्थियों के प्रयास में अभाव।

LAKSHMIPAT SINGHANIA ACADEMY

PROJECT PLAN, TERM -I

2024-25

Theme : Demographic Impact on Society

House : Prithvi, Agni

Integration : Art, IT, Sanskrit, Hindi, Bengali 2nd Language, History

Marks : 20

CLASS-VIII

SUBJECT – BENGALI 3RD LANGUAGE

জনসংখ্যা প্রত্যেকটি দেশের ক্ষেত্রেই একটি গুরুত্ব পূর্ণ বিষয়। জনসংখ্যা বৃদ্ধির বিশেষ কিছু কারণ আছে। যেমন বর্তমানের উন্নত চিকিৎসা বিজ্ঞান যা মৃত্যুর হার অনেক কমিয়ে দিয়েছে। দ্বিতীয়ত কৃষিতে উন্নয়ন, উন্নত মানের খাদ্য, তৃতীয়ত, খাদ্যের যথাযথ উপলব্ধতা, ও চতুর্থত নিরাপদ আশ্রয়। জনসংখ্যার উত্তরোত্তর বৃদ্ধিতে একদিকে যেমন দেশের অর্থনীতির উপর চাপ সৃষ্টি হচ্ছে অন্যদিকে পরিবেশে দূষণ, আস্বাস্থ্যকর পরিবেশ, অশিক্ষার ইত্যাদির ও কারণ হয়ে উঠেছে অতিরিক্ত জনসংখ্যা বৃদ্ধি। তাই সমাজ ও সমাজের অর্থনীতির উপর জনসংখ্যার প্রভাব অনস্বীকার্য। বাংলা র এই পরিস্থিতি কার্যের মাধ্যমে শিক্ষার্থীরা সমাজের জনসংখ্যার প্রভাব বিষয়ে একটি PPT তৈরি করবে যেখানে থাকবে সমাজের উপর জনসংখ্যার প্রভাব বিষয়ে একটি তথ্যমূলক আলোচনা, একটি স্লোগান ও একটি পোস্টার।

(Population is an important issue in every country. Population growth has certain causes. For example, the advanced medical science of today has reduced the death rate a lot. Second, development in agriculture, better quality food, third, proper availability of food, and fourth, safe shelter. On the one hand, there is pressure on the country's economy due to the continuous increase in population, on the other hand, the increase in population has become the cause of environmental pollution, unhealthy environment, illiteracy, etc. So the impact of population on society and society's economy is

undeniable. Through this Bengali project, students will create a PPT on the impact of population on society that will include an informative discussion on the impact of population on society, a slogan and a poster.)

পরিযোজনা কার্যের উদ্দেশ্য : (Learning Objectives)

- এই পরিযোজনা কার্যের মাধ্যমে শিক্ষার্থীরা দেশের জনসংখ্যার সঠিক তথ্য সম্পর্কে অবহিত হবে।(Through this activity the students will be informed about the correct information about the population of the country.)
- জনসংখ্যার সাথে সমাজ ও অর্থনীতির সম্পর্ক অবগত হবে। (The relationship between population and society and economy will be known.)
- জনসংখ্যা কীভাবে সমাজকে প্রভাবিত করে সে সম্পর্কে ধারণা লাভ করবে। (Understand how population affects society)
- জনসংখ্যা বৃদ্ধি ও তার ফলাফল সম্পর্কে সচেতন হবে। (Will be aware of population growth and its consequences.)
- ব্যবহারিক প্রয়োগ ক্ষমতা বৃদ্ধি পাবে।(Practical application capacity will increase.)
- সৃজনশীলতা, ভাষাশৈলী ও বিচারশক্তির বিকাশ হবে। (Creativity, language and judgment will develop.)
- **পরিযোজনা কার্যের কাঙ্ক্ষিত ফলাফল: (Learning Outcome)**

শিক্ষার্থীরা এই পরিযোজনা কার্যের মাধ্যমে দেশের জনসংখ্যার সঠিক তথ্য সম্পর্কে অবহিত হবে এবং জনসংখ্যার উত্তরোত্তর বৃদ্ধি কীভাবে সমাজ ও দেশের অর্থনীতিকে প্রভাবিত করছে সে বিষয়ে অবগত হবে। প্রত্যেক শিক্ষার্থীকে একজন দেশের সচেতন নাগরিক হয়ে উঠতে সাহায্য করবে। (Through this project students will be informed about the accurate data of the population of the country and how the subsequent increase in population is affecting the society and the economy of the country. It will help every student to become a conscious citizen of the country.)

Theme : Environmental and Ecological Balance

House : JAL, VAYU

Integration : Art, IT, Sanskrit, Hindi, Bengali 2nd Language, History

Marks : 20

CLASS-VIII

SUBJECT – BENGALI 3RD LANGUAGE

পরিবেশের ভারসাম্য রক্ষা বর্তমানে একটি বহুল চর্চিত বিষয়। সভ্যতার অগ্রগতির সাথে সাথে আমরা প্রতিনিয়ত পরিবেশের ভারসাম্য বিঘ্নিত করে ফেলছি। সবটাই যে ইচ্ছাকৃত তা নয়, মানুষ নিজের অজান্তেই এমন অনেক কাজ করে ফেলে যা পরিবেশের ভারসাম্যকে নষ্ট করে দেয়। যার ফলে আমাদের নানা বিধ প্রাকৃতিক দুর্যোগের মুখোমুখি হতে হয় যেমন অতিবৃষ্টি, অনাবৃষ্টি, অত্যধিক উষ্ণতা বৃদ্ধি ইত্যাদি। এবিষয়ে জনসাধারণের মধ্যে সচেতনতা বৃদ্ধির জন্য একটি PPT তৈরি কর যেখানে থাকবে প্রকৃতির ভারসাম্য বলতে কী বোঝা তার আলোচনা, এই ভারসাম্য রক্ষার জন্য সচেতনতা মূলক স্লোগান ও এবিষয়ে একটি পোস্টার।

(Protecting the balance of the environment is a much-discussed topic these days. As civilization progresses, we are constantly disturbing the balance of the environment. Not all of it is intentional, people unknowingly do many things that destroy the balance of the environment. Due to which we have to face various natural calamities such as heavy rains, lack of rains, extreme temperature rise etc. Create a PPT to create awareness among the public on the subject, which will include a discussion on what is meant by the balance of nature, an awareness slogan to protect this balance and a poster on the subject)

পরিযোজনা কার্যের উদ্দেশ্য : (Learning Objective)

- পরিবেশের ভারসাম্য বলতে কী বোঝায় সে বিষয়ে অবগত হওয়া।(To know what is meant by ecological balance.)

- কীভাবে তা বিঘ্নিত হচ্ছে সে বিষয়ে ধারণা লাভ করা। (To understand how it is being disrupted.)
- কীভাবে পরিবেশের ভারসাম্য রক্ষা করা সম্ভব সে বিষয়ে সচেতনতা বৃদ্ধি। (Increasing awareness on how to protect the balance of the environment.)
- ব্যবহারিক প্রয়োগশক্তির বিকাশ। (Development of practical application.)
- সৃজনশীলতা, ভাষাশৈলী ও চিন্তাশক্তির বিকাশ। (Development of creativity, language and thinking power.)

পরিযোজনা কার্যের কাঙ্ক্ষিত ফলাফল: Learning outcome)

এই পরিযোজনা কার্যের মধ্য দিয়ে শিক্ষার্থীরা পরিবেশগত ভারসাম্য কী ও কীভাবে তার ভারসাম্য রক্ষা করে কিভাবে বিভিন্ন প্রাকৃতিক দুর্যোগের হাত থেকে মুক্তি পাওয়া যায় সে বিষয়ে শিক্ষা লাভ করবে এবং একজন সচেতন নাগরিক হিসাবে নিজেদের দায়িত্ব পালন করতে সক্ষম হবে। (Through this project, students will learn about what is ecological balance and how to protect its balance, how to get rid of various natural disasters and will be able to fulfill their responsibilities as a conscious citizen.)

RUBRICS

Skills- দক্ষতা	Competency – যোগ্যতা			
	4	3	2	1
Content (4 marks)	সকল বিষয় সঠিক ভাবে লেখা হবে এবং প্রতিটি ক্ষেত্র আলাদা ভাবে প্রতিফলিত হবে (All subjects will be correctly written and	বিষয়বস্তুর উল্লেখ অপ্রতুলতা (Inadequacy in reference to content)	প্রয়োজনীয় বিষয়ের প্রতিটি ক্ষেত্রের উল্লেখ নেই (Not every area of the required subject is mentioned)	অসম্পূর্ণ কাজ (Incomplete Work)

	each field will be reflected separately			
Research (4 marks)	বিষয়ের স্পষ্ট ও যথাযথ উল্লেখ (Clear and proper reference to the subject)	প্রয়োজনীয় বিষয়ের অসম উল্লেখ (Unequal mention of essentials)	প্রয়োজনীয় বিষয়ের অনুপস্থিতি (Absence of essentials)	ভুল পদ্ধতি বেছে নেওয়া (Choosing the wrong method)
Creativity (4 marks)	বিষয়বস্তুর সাথে সমতা বজায় রেখে মৌলিক চিন্তাশীলতা (Fundamental thinking in keeping with content)	বিষয়বস্তুর সাথে সমতা বজায় থাকলেও মৌলিকতার অভাব (Lacks originality even though content is on par)	বিষয়বস্তু ও নামকরণে সমতার অভাব (Lack of uniformity in content and nomenclature)	নামকরণের অনুপস্থিতি (Absence of nomenclature)
Art Integration (4 marks)	পরিচ্ছন্ন কাজ, উপযুক্ত প্রচ্ছদ ভাবনা, উপযুক্ত শিল্পভাবনা (Neat work, decent cover idea, decent art idea)	উপযুক্ত প্রচ্ছদ কার্যের অপ্রতুলতা, সৃজনশীলতার অভাব (Lack of proper cover work, lack of creativity)	উপযুক্ত প্রচ্ছদের অভাব (Lack of suitable cover)	প্রচ্ছদের অনুপস্থিতি (Absence of cover)
Overall Presentation (4 marks)	সুন্দর, পরিচ্ছন্ন উপস্থাপনা (Nice, clean presentation)	সুন্দর, পরিচ্ছন্ন উপস্থাপনা, কার্যে আত্মবিশ্বাসের অভাব (Nice, clean presentation, lack of confidence in action)	কার্যে পরিচ্ছন্নতার অভাব (Lack of cleanliness in practice)	বানান ভুলের বাহুল্য (Lot of spelling mistakes)

Theme: Demographic impact on society**HOUSE: PRITHVI, AGNI****Learning Objectives:**

- Knowing the demographic impact
- Understand the Indian society
- Creative skill enhancement
- Writing Skill development

Demographics can have a powerful impact on society, including its economy, welfare, health systems, housing, and infrastructure. Demographic trends, such as population growth, age structure, and fertility and mortality history, can determine a population's long-term social, economic, and political fabric. Here are some ways demographics can impact society:

- Economy: Demographics can influence the economy's growth rate, productivity growth, living standards, savings rates, consumption, investment, unemployment rate, interest rate, housing market trends, and demand for financial assets. For example, economies with rapidly expanding prime-age population cohorts (ages 25-54) may have improved GDP growth potential, but also face the challenge of creating enough employment to meet that population's needs.
- Welfare and health systems: Demographic change can impact welfare and health systems.
- Housing and infrastructure: Demographic change can impact housing and infrastructure needs.
- Government budgets: Demographic change can have implications for government budgets.
- Consumer behavior: Demographic variables such as age, sex, income, education, marital status, and mobility can all have significant influence on consumer behavior.

Keeping these details in mind as a part of your Digital Sanskrit Project you are request to assume you are travelling from a high population density zone to a low one. As an experienced individual of both the zones,

- You are requested to make two posters. Both the pictures will illustrate privileges or issues of both the zones.
- Please note both the picture must be unique and innovative. You may use speech bubbles.
- Prepare a slogan in Sanskrit to promote the positive impact of demographic values on Indian society
- Label all the pictures properly
- Make a proper Cover Slide

Learning Outcome

At the end of the project, students should be able to understand the values and impact of demographic values. Students will also understand the core concept and importance of the same.

Evaluation Rubrics

CRITERIA	Competency			
	4	3	2	1
Content (4 marks)	All subjects will be correctly written and each field will be reflected separately	Although the art work is there but slogan is missing	Not every area of the required subject is mentioned	Incomplete work
Research (4 marks)	Clear and appropriate reference to the core concept	Clear but inappropriate reference to the subject	Core points are missing	Wrong representation of the project
Creativity (4 marks)	Fundamental thinking in keeping with content	Lacks originality even though content is on par	Lack of uniformity in content and nomenclature	No Title
Art Integration (4 marks)	Clean and appropriate cover ideas, unique designs	appropriate cover ideas, inappropriate Design	appropriate cover ideas missing	No Cover page
Overall Presentation (4 marks)	Visual appeal enhances understanding significantly.	Visual appeal is decent, contributing to understanding.	Visuals are somewhat relevant but could be improved for better understanding.	Visuals are minimal and do not aid understanding.

Theme: Environmental and ecological balance in India

HOUSE: VAYU, JAL

Learning Objectives:

- Knowing the culture of India
- Understand the value to protect our environment
- Creative skill enhancement

- Writing Skill development

Ecological balance, also known as the balance of nature, is a theory that describes the state of stability in which living organisms, such as plants, animals, and humans, coexist with their environment. In this state, genetic, species, and ecosystem diversity are relatively stable, subject to gradual changes through natural succession.

Ecological balance is important because it ensures the stability of the environment and organisms, and creates a conducive environment for organisms to thrive and multiply. It also enhances a stable environment that is free from ecological imbalances such as flood, hunger caused by drought, windstorms, and over hunting of predators.

Humans play a key role in maintaining ecological balance, as they have the highest thinking capacity compared to other living organisms.

Famous American author and cartoonist Dr. Seuss wrote a story named 'The Lorax' which chronicles the plight of the environment. The main protagonist Lorax, used to "speak for the trees" and confronted the Once-ler, a business magnate who causes environmental destruction.

Keeping that example in mind as a part of your Digital Sanskrit Project,

- You are requested to make two posters. One will illustrate environmental and ecological balance, while the other will depict the results of environmental and ecological imbalance.
- Please note both the picture must be unique and innovative. You may use speech bubbles.
- Prepare a slogan in Sanskrit
- Label all the pictures properly
- Make a proper Cover Slide

Learning Outcome

At the end of the project, students should be able to understand the values and importance of environmental and ecological balance. Students will also understand the core concept and importance of the same.

Evaluation Rubrics

CRITERIA	Competency			
	4	3	2	1
Content (4 marks)	All subjects will be correctly written and each field will be reflected separately	Although the art work is there but slogan is missing	Not every area of the required subject is mentioned	Incomplete work

Research (4 marks)	Clear and appropriate reference to the core concept	Clear but inappropriate reference to the subject	Core points are missing	Wrong representation of the project
Creativity (4 marks)	Fundamental thinking in keeping with content	Lacks originality even though content is on par	Lack of uniformity in content and nomenclature	No Title
Art Integration (4 marks)	Clean and appropriate cover ideas, unique designs	appropriate cover ideas, inappropriate Design	appropriate cover ideas missing	No Cover page
Overall Presentation (4 marks)	Visual appeal enhances understanding significantly.	Visual appeal is decent, contributing to understanding.	Visuals are somewhat relevant but could be improved for better understanding.	Visuals are minimal and do not aid understanding.