



BHAI PARMANAND VIDYA MANDIR

HOLIDAY



2024





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HOLIDAY HOMEWORK

CLASS VIII

(2024-25)

THEME: Discover and Experience Diversity

GENERAL INSTRUCTIONS:

- *Holiday Homework carries marks in assessment. Hence, submission of work post vacation is compulsory for all students.*
- *Parents are requested to only guide their children while doing the assignment.*
- *Originality of the work will be appreciated.*
- *The work must be done in a very neat and presentable manner.*
- *Questions must be done in the given sequence.*
- *The child will be assessed for the handwriting, presentation, neatness, completion of all the given questions, indexing of the work.*
- *It is mandatory to do all the activities; however there may be internal choices.*
- *Do all the written work on A4 sized sheets (except where mentioned otherwise)*
- *For Submission, Keep all work subject-wise in separate clear bags or stick files.*



SOCIAL SCIENCE

INCLUSIVE DIVERSITY : DO DIFFERENCES MAKE A DIFFERENCE?

Diversity is the one true thing we all have in common. Let's celebrate it in every task of this Holiday Homework, with each task offering distinct challenges to embrace. By tackling issues of marginalization and championing inclusive diversity, let's transform our assignments into avenues of advocacy and celebration



Material Required: A4 size sheets (Colored), Project file

Methodology: Undertake research on the country assigned to you based on your roll number, and carry out the specified tasks below:

Roll Numbers	Assigned Country
1, 2, 3	Japan
4, 5, 6	Canada
7, 8, 9	United States
10, 11, 12	Australia
13, 14, 15	UK
16, 17, 18	South Africa
19, 20, 21	Israel
22, 23, 24	Myanmar
25, 26, 27	China
28, 29, 30	Belgium
31, 32, 33	Sri Lanka
34, 35, 36	Brazil
37, 38, 39	Indonesia
40, 41, 42	Kenya
43, 44, 45, 46	France

★ **Task I: Understanding Marginalization:** Identify and list the marginalized groups in the assigned country. Also, list the factors that contribute to their marginalization.

★ **Task II: Upliftment of the Marginalized:** The framers of our constitution have incorporated many provisions to alleviate the social and economic suffering of the marginalized groups. Like Article 17: Abolition of Untouchability, National Commission for Women, Child Labour (Prohibition & Regulation) Act, 2006 etc. Find out & elaborate on any two such constitutional provisions/steps taken for the upliftment of marginalized groups in your assigned country.

★ **Task III: Bridging Margins: A Comparison:** Provide a comparative analysis summarizing the similarities and differences between the approaches taken by the assigned country and India in addressing marginalization and promoting social upliftment. In your comparison highlight parameters given below.

- Marginalized Groups
- Government Policies and Programs
- Access to Education and Healthcare
- Economic Empowerment
- Civil Society and Community Initiatives
- Cultural and Social Inclusion
- Challenges and Successes

★ **Task IV: Making Yourself Inclusive:** Constitutional provisions alone cannot uproot marginalization from society. As responsible citizens, we have an important role to play in this regard.

- Be Inclusive & suggest some practices that you can incorporate in your attitude to end any kind of marginalization around you.
- Research about an International personality or activist who has worked and driven the message of being inclusive to reduce marginalization.
- Do mention the marginalized group uplifted by them
- Summarize the steps taken by them to reduce marginalization around them

★ **Task V: Learning by Doing, Empathy in Action:** Like women & children, old people also belong to marginalized groups. Sometimes they are the most neglected. Try to spend time with your grandparents or any other old person. Talk to them, ask them about their needs and care for them. Reflect on your experience and write about it on a separate sheet of paper.

★ **Task VI: Map Skills:** On a political map of India, mark & label the following:

- 1) Any two Minority dominated states
- 2) Any two tribal groups/areas in north east India.
- 3) States with the highest & the lowest female population in India.

INTEGRATED WORKSHEET: Solve the practice worksheet on white, ruled A4 size sheets. Click on the link below to open the worksheet.

[WORKSHEET LINK: CLICK HERE](#)

SCIENCE

"In the quest for understanding, science illuminates the path, revealing the wonders hidden in the everyday."

Science is intricately woven into the fabric of our daily lives, offering us profound insights into the workings of the world around us. By fostering curiosity and cultivating a scientific mindset, we empower learners to explore, innovate, and take on a greater sense of responsibility.

Select a model according to the roll numbers, that excites you and aligns with your interests and academic goals. Document (on A4 size sheets) your creative process, take photos, and prepare a detailed explanation to accompany your model.

(I) MODEL/EXPERIMENT BASED ACTIVITIES:

Roll no. 1 to 20 will make physics model

Roll no. 20 to 30 will prepare chemistry model/activity

Roll no. 31 onwards will make Biology model

Following are the Ideas for making the project

*****Apart from these suggested ideas you may also choose some other topic or idea for preparing the model or showcasing the activities.**

PHYSICS

1. Making a working model on any renewable resources of energy.
2. Flood-Resilient Roads: A road designed with sections that can be mechanically lifted during flood events.
3. Hydraulic Bridge: Build a miniature hydraulic Bridge using syringes and tubes to demonstrate Pascal's principle and hydraulic systems.
4. Magnetic Levitation Train: Build a small-scale magnetic levitation train using magnets and a conductive track to demonstrate principles of magnetic levitation and electromagnetic propulsion.
5. Electromagnet: Create an electromagnet by wrapping wire around a nail or bolt and connecting it to a battery. Use the electromagnet to pick up small metal objects.
6. Newton's Cradle: Conservation of momentum and energy works by using a series of swinging spheres.
7. Working model of hydro power plant (Hydroelectricity) /Solar / Wind / Water Energy based power plants.
8. Parachute Model: Air Resistance, Gravity

BIOLOGY

1. Comparison of Fish's Heart with Human Heart
2. DNA Double Helix Model
3. Function of xylem and phloem: Demonstrating Capillary Action in Tree
4. Biofuel Production Setup: A small-scale model demonstrating the process of producing biofuels from organic matter such as algae, agricultural waste, or even kitchen scraps.
5. Self Sustainable Ecosystems

CHEMISTRY

1. Molecular Models: Water, Carbon Dioxide
2. Biodegradable Polymer: Biodegradability and comparison of biodegradable polymer with traditional plastic
3. Voltaic Cell: Constructing a simple battery to demonstrate the conversion of chemical energy into electrical energy.
4. Water Purification system
5. pH indicator Experiment: Acid, Bases pH scale
6. Invisible Ink: Prepare invisible ink using lemon juice or milk and demonstrate how it becomes visible when heated or exposed to certain chemicals (like iodine vapor).
7. Density Tower: Create a density tower by layering liquids of different densities, such as water, oil, and syrup. This demonstrates the concept of density and the principle that denser substances sink while less dense substances float.

(II) **Worksheets for practice** : Solve the practice worksheet on white, ruled A4 size sheets. Click on the link below to open the worksheet.

Worksheet Link: Click here

ENGLISH

1. TOPIC : BOOK REVIEW

DESCRIPTION: A book review is a description and a critical evaluation of a book where a book is described or analyzed based on content, style, and merit. Now it's your turn to write a book review.

Name of the novel - Canterville Ghost

TASK 1: Read the novel.

TASK 2: On the basis of your understanding of the novel, answer the following questions -

1. What according to you is the central theme of the novel?
2. If you could step into the shoes of any particular character, whom would you choose and Why? How would you then change the course of the novel?
3. If you could change any one incident in the novel, what would it be and Why? How will that affect the course of the novel?
4. Rewrite the ending/continue the story and give an alternate ending.

POINTS TO REMEMBER:

- Design the cover page.
- Supplement the book review with some pictures.

MATERIAL REQUIRED: Use A4 size sheets (Any light color or plain)

2. Historical Essay

TASK 1: Research a historical event or figure that interests you.

TASK 2: Write an essay discussing its significance and impact on the present.

POINTS TO REMEMBER:

- Select a historical event or figure that genuinely interests you.
- Start with a broad overview of your topic using reliable sources such as history textbooks, encyclopedias, and academic websites.
- Develop a clear and concise thesis statement that encapsulates the main argument or focus of your essay.
- Use a mix of primary sources (e.g., letters, photographs, official documents) and secondary sources (e.g. articles, biographies, history books) to gather comprehensive information.
- Organize your research into a structured outline. Include an introduction, body paragraphs, and a conclusion.
- Go beyond summarizing facts. Analyze the significance and impact of your topic.
- After completing your essay, reflect on what you have learned about the topic and the research process. Consider how this experience has enhanced your understanding of history and your research skills.

MATERIAL REQUIRED: Use A4 size sheets (Any light color or plain)

3. PRACTICE WORKSHEETS: Do all the worksheets on A4 size sheets which will be uploaded on Google Classroom.

MATHEMATICS

METHODOLOGY: Students are required to do the given task on A4 Size Coloured Sheet. Worksheets will be done on A4 Size Sheets. (Any light color or plain)

What is Diversity?

Diversity refers to the variety of differences among people, encompassing race, gender, age, experiences, talents, skills, and opinions. By acknowledging and celebrating diversity, societies can cultivate environments that are more inclusive, innovative, and resilient, benefiting individuals and communities alike.

In math, diversity means having different ways of looking at problems and solving them. Just like how having different kinds of people makes a community stronger, having different ways of thinking about math makes it more interesting and helps us come up with new ideas.

Research Work:

Comparative Analysis of Population Characteristics: Developed vs. UnderDeveloped countries:

Developed countries are known for their wealth and innovation, while UnderDeveloped countries face developmental challenges with resilience.

Undertake research on the country assigned to you based on your roll number.

Roll Numbers	Assigned Developed Country	Assigned Underdeveloped Country
1 -5	United States	Afghanistan
6 -10	Canada	Yemen
11 -15	United Kingdom	Liberia
16 -20	France	Malawi
21 -25	Singapore	Sierra Leone
26 -30	Sweden	Chad
31 -35	Japan	Somalia
36 -40	Australia	Niger
41-46	Germany	Haiti

Your task is to collect data on the population of your assigned country from the last 2 years to now. You'll look at things like

- **Age groups,**
- **Gender ratios,**
- **Birth and Death rates, and**
- **Literacy rates.**

The entire class needs to collect data from India too , regardless of their assigned countries.

Remember to be thorough and accurate in your research, and Present all the above data collected in a tabular format and solve the following questions:

Questions :

- 1) Take the population of your developed country in 2022 to 2024 and if it's growing at a constant rate, write a linear equation to represent its population growth over time.
- 2) If the birth rate of an underdeveloped country decreases by 2 per 1,000 people every year, write a linear equation to represent the birth rate over time.
- 3) What percentage of the total population of the three countries falls under the age group of 15-64 years?
- 4) If there are 1,000 males in Japan, how many females are there based on the gender ratio?
- 5) Find the ratio of the total women to total men of all three countries based on the gender ratio.
- 6) Compare the proportion of the population aged 0-14 years in your developed and underdeveloped country with India using fractions.
- 7) What are the similarities and differences in the longitudinal patterns of numerical literacy rates between the developed country, the underdeveloped country , and India ?
- 8) Find the multiplicative inverse and the additive inverse of the total population of three countries when added together, and then calculate the product of both.

WORKSHEET LINK:

1. Worksheet Ch-1 (Rational Numbers)

<https://docs.google.com/document/d/1F4jGdNkDMWhP7yy9GSJ5Mvf8aI03nVT8/edit?usp=sharing&oid=111912005680560286804&rtpof=true&sd=true>

2. Worksheet Ch-2 (Linear Equations In One Variable)

<https://docs.google.com/document/d/1U0teVU8QIKI3jXBOLbN-bauCOJRli3D /edit?usp=sharing&oid=111912005680560286804&rtpof=true&sd=true>

3. Worksheet Ch-4 (Data Handling)

<https://docs.google.com/document/d/1CPLvAg1Gnt-sf19g9dO8KZRwo4MqePLc/edit?usp=sharing&oid=111912005680560286804&rtpof=true&sd=true>

हिंदी

विविधता को खोज और अनुभव

सामान्य निर्देश:

- ❖ मूल्यांकन करने हेतु ग्रीष्मकालीन गृहकार्य का करना अनिवार्य है।
- ❖ अभिभावकों से निवेदन है कि छात्रों का उचित दिशा में केवल मार्गदर्शन करें।
- ❖ क्रमानुसार सभी प्रश्नों के उत्तर शुद्ध वर्तनी में पूर्ण कीजिए।
- ❖ सभी गतिविधियों को स्पष्ट व सुंदर लेख में करना अनिवार्य है।

विविधता हमारी समृद्धि का मूल आधार है और इसका अनुभव हमें अधिक उत्कृष्ट और समृद्ध व्यक्तित्व बनाने में मदद करता है। विविधता हमें नए विचारों, अनुभवों, और दृष्टिकोणों को समझने का मौका देती है। सद्गुरु जी ने कहा है कि “विविधता प्राकृतिक अस्तित्व का आधार और शक्ति है। इसे एक जीवंत सामाजिक संरचना का भी मूल तत्व होना चाहिए।”

क्रियाकलाप १ विविधता के परंपरागत व आधुनिक आयाम: लिंक में दत्त दृश्य सामग्री को ध्यानपूर्वक देखिए।

क्रियाकलाप २ दत्त सामग्री के आधार पर प्रश्नावली 50-60 शब्दों में हल कीजिए -

- प्रश्न १ भारतीय ग्रामीण संस्कृति की 'विविधता' से क्या अभिप्राय है ?
- प्रश्न २ विश्व बंधुत्व की भावना किस प्रकार मानव के विकास में सहायक सिद्ध हुई है ?
- प्रश्न ३ भारतीय कला संस्कृति किस प्रकार मानव जीवन को प्रभावित करती आई है ?
- प्रश्न ४ विविधता के संदर्भ में नेहरू जी ने किस सत्य को उजागर किया है ?
- प्रश्न ५ वर्तमान समय में विविधता को खोजने और अनुभव करने के मार्ग में मुख्य अवरोधक कौन है ?
- प्रश्न ६ भारत के भावी नागरिक होने के नाते आप किस प्रकार 'भारतीय विविधता और एकता के सूत्र' को बढ़ाने में किस प्रकार सहयोग देंगे ?

उपन्यास समीक्षा

‘त्यागपत्र’ जैनेन्द्र कुमार का एक उत्कृष्ट उपन्यास है। जो न केवल साहित्यिक दृष्टि से बल्कि सामाजिक और वैचारिक दृष्टिकोण से भी महत्वपूर्ण है। इसकी विशेषताएँ इसे एक कालजयी रचना बनाती हैं, जो पाठकों को सोचने और समाज में बदलाव के लिए प्रेरित करती हैं। यह



उपन्यास विभिन्न सामाजिक, व्यक्तिगत, वैचारिक, संघर्षात्मक और भावनात्मक, विविधताओं को प्रस्तुत करता है।

क्रियाकलाप १- जैनेन्द्र कुमार जी के द्वारा लिखित उपन्यास 'त्यागपत्र' को ध्यानपूर्वक पढ़िए।

क्रियाकलाप २ - जैनेन्द्र कुमार जी ने उपन्यास 'त्यागपत्र' में किस प्रकार व्यक्तिगत अनुभवों, भावनाओं और प्रेरणाओं की विविधता को उजागर किया है? 200-250 शब्दों में स्पष्ट कीजिए।

अभ्यास कार्य पत्रिका- दी गई अभ्यास पत्रिका को पूर्ण कीजिए।

- १ उपर्युक्त ग्रीष्मकालीन अवकाश कार्य A4 शीट पर करना अनिवार्य है।
- २ प्रतिदिन हिंदी समाचार पत्र व पुस्तक पढ़ें और पठन-पाठन कार्य को मज़बूत करें।
- ३ साहित्य व व्याकरण के कक्षा कार्य को कंठस्थ करें।
- ४ निर्दिष्ट कार्य पत्रिका में करवाएँ गए विषयों से संबंधित कार्य पत्रिका पूर्ण करें।

SANSKRIT (IF OPTED FOR)

आवश्यक निर्देश-कार्य का मूल्यांकन होगा तथा अंक दिए जाएंगे /

कार्य एक- *A 4 SIZE SHEETS* पर स्पष्टता व स्वच्छता से पूर्ण करना है /

शब्दरूप, धातुरूप व अव्यय शब्द याद भी करने हैं, मौखिक अभिव्यक्ति के भी अंक दिए जाएंगे /

कार्य 1-

* अस्मद् , युष्मद् व तत् सर्वनाम शब्दरूप (स्त्री. व पु.) अभ्यास पुस्तिका में लिखो व हर शब्द के आधार पर संस्कृत वाक्य संरचना करो / (तीनों वचनों व सातों विभक्तियों के आधार पर)

कार्य 2-

* किम् के शब्दरूपों (तीनों लिंग) के आधार पर प्रश्नवाचक वाक्य बनाओ /

कार्य 3-

* व्याकरण की पुस्तक में दिए गए अव्यय शब्द अर्थ सहित कंठस्थ करो व कार्य 1 के वाक्यों में उनका प्रयोग करो /

कार्य 4-

* 50 शब्दों की एक शब्दावली बनाओं /

SPANISH (IF OPTED FOR)

- 1) Make a video Somewhere in (Mall, Park, Temple, Library) Describing how you are spending your holidays
- 2) Choose two cities, Madrid and Delhi, and compare their climate patterns. Research and gather information about the food and General characteristics of each city. Make a written report on A4 highlighting the differences and similarities between the two cities.(Maximum 7 points)
- 3) Write 40 new words on A4 Sheet with their meanings.