BHAI PARMANAND VIDYA MANDIR HOLIDAYS HOMEWORK

CLASS VI (2025-26)

THEME: Technology & Sustainability Improving Our Lives

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 and neatness of the work will be appreciated.
- → 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.

ENGLISH

1. TOPIC: BE AN ORATOR

DESCRIPTION: Speech is the art of conveying a message to the audience through words. The speech is considered best if it is written to engage the audience and hold their attention from the starting to the end.

METHODOLOGY:

- Watch the **two sample speeches** shared via the YouTube links.
 - I Have a Dream speech by Martin Luther King .Jr HD (subtitled)
 - Steve Jobs' 2005 Stanford Commencement Address
- Observe how the speaker **starts**, **explains**, **and ends** the speech.
- Write your own **original speech** (250–300 words) on the **topic allotted to you as per your roll number**. The speech should be written in the proper format.
- It should include the **incidents and quotes** which will inspire everyone with reference to the topic.
- Use the **phrases** provided below.

PHRASES TO USE IN THE SPEECH:

"In today's modern world..."

"Together, we can make a difference."

"Have you ever wondered why...?"

"Before I say anything else, let me ask you this..."

"Imagine a world where..."

"This is not just a fact; it's a wake-up call."

"Let's be the spark that lights the fire."

"Let this be our moment of change."

"History will remember those who..."

"It starts with one voice Yours"

SPEECH TOPICS:

Roll no. 1-5
 Roll no. 6-10
 Cyber Safety is Everyone's Responsibility
 Curiosity is the First Step to Learning

Roll no. 16-20 - Gratitude Turns What We Have Into Enough Roll no. 21-25 - Artificial Intelligence is the Future of Innovation

Roll no. 26-30 - The Future of Renewable Energy

Roll no. 31-36 - Is Technology Helping or Hurting the Environment?

Roll no. 37-42 - Should social media platforms be regulated?

MATERIAL REQUIRED: Use A4 sized sheets for this topic.

2. TOPIC: TECH TALKS: FUTURE IN FOCUS

Part 1: Real Interview (Video)

Whom to Interview?

Interview a parent, grandparent, sibling or neighbour.

What to Do?

- Ask any 5 questions from the list below.
- Record a short video of the interview.
- Make sure your voice is clear and you show good listening skills.
- Start by introducing who you are interviewing and end by thanking them.

Sample Questions (choose any 5):

- a. How was life different before smartphones and the internet when it came to saving paper or resources?
- b. What are some eco-friendly habits you see in homes today that didn't exist before?
- c. Do you think technology has helped reduce waste? Can you give an example?
- d. What do you like most about appliances that save water or electricity?
- e. How has transportation become more environmentally-friendly?
- f. Do you remember a time when people reused things more instead of throwing them away?
- g. Have you used solar panels or energy-saving bulbs at home? How was the experience?
- h. How can children use technology to protect the environment?
- i. What changes have you seen in schools about sustainability and technology?
- j. If you could invent one eco-friendly gadget, what would it be and why?

Submission: Paste the link of the video in the slide provided for the same in the English Google Classroom.

Part 2: Written Imaginary Interview (Dialogue Format)

What to Do?

- Imagine you are interviewing a personality allotted to you according to your roll number.
- Write a dialogue with at least 10 questions and their answers (excluding basic introduction and courtesy sake questions).
- You are not allowed to use the questions which are given in the first part of the task.
- Start with a greeting and end with a thank you.
- Include questions which ask for their achievements and opinions around the theme.
- Use neat handwriting and proper format for the written interview.
- Use your creativity and think carefully about your questions and answers.
- Necessarily use the following words in your interview.

VOCABULARY: Innovation, Resilience, Empowerment,, Consciousness, Equity, Disruption, Legacy, Sustainability at the heart of progress, Merging purpose with progress, Greener tomorrow.

MATERIAL REQUIRED: Use A4 sized sheets for this topic.

Y Environmentalists / Climate Activists

R. No.	Name	Identity
1	Greta Thunberg	Climate Activist
2	Sunita Narain	Environmentalist
3	Arun Krishnamurthy	Environmental Reformer
4	Narayana Peesapaty	Sustainable Innovator
5	Jadav Payeng	Forest Creator
6	Ridhima Pandey	Young Climate Activist
7	Chetan Singh Solanki	Solar Energy Advocate
8	Kavita Shukla	Eco-Innovator
9	Dia Mirza	Eco Ambassador
10	P.C. Jain	Green Advocate
11	Sonam Wangchuk	Climate Educator
12	Kehkashan Basu	Youth Environmental Leader
13	Bittu Sahgal	Environmental Journalist

? Innovators / Entrepreneurs / Scientists

R. No.	Name	Identity
14	Dr. Harish Hande	Social Innovator
15	Pavan Sukhdev	Green Economist
16	Anirudh Sharma	Tech Innovator
17	Rohit Puranik	Plastic Recycler
18	Dinesh Chauhan	Eco Entrepreneur
19	Anshu Gupta	Social Entrepreneur (Goonj)
20	Arpit Dhupar	Pollution-Based Ink Innovator

Vaibhav Lodha Youth Changemaker

Leaders / Politicians / Policy Makers

R. No.	Name	Identity
23	Narendra Modi	Prime Minister of India
24	Justin Trudeau	Prime Minister of Canada
25	Elon Musk	Tech Visionary
26	Barack Obama	Former US President
27	Ratan Tata	Business Leader
28	Joe Biden	US President
29	Bill Gates	Tech Philanthropist

m Corporate Leaders / Tech Icons

R. No.	Name	Identity
30	Sundar Pichai	Google CEO
31	Jeff Bezos	Amazon Founder
32	Tim Cook	Apple CEO
33	Sundar Pichai (again)	Tech Executive

Artists / Authors / Public Figures

R. No.	Name	Identity
34	Leonardo DiCaprio	Actor & Environmentalist
35	Gul Panag	Actor & Activist
36	Manasi Subramaniam	Literary Editor
37	Usha Raghunath	Sustainable Fashion Designer
38	Kritika Saxena	Eco Architect

39 Chris Hemsworth Actor

40 Dia Mirza Actress & Environmentalist

👰 Educators / Economists / Writers

R. No.	Name	Identity
41	Gaurav Sharma	Diplomat & Author
42	Saumya Saxena	Research Scholar
43	Abha Joshi Ghani	Urban Economist
44	Bittu Sahgal	Editor - Sanctuary Asia

3. Task 3: Revision Worksheet- Do all the worksheets on A4 sized sheets which will be uploaded on Google Classroom.

HINDI



हिंदी ग्रीष्मकालीन गृहकार्य 2025-26 (कक्षा -छठी)

सामान्य निर्देश:

- मूल्यांकन हेत् ग्रीष्मकालीन गृहकार्य समस्त विद्यार्थियों के लिए 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।
- समस्त कार्य A4 आकार के पृष्ठ पर करें।
- 💠 दी गई कार्यपत्रिकाओं की प्रतिलिपि बनाकर कार्यपत्रिका पूर्ण करें|

विषय संवर्धन गतिविधि

विषय: प्रौद्योगिकी और स्थिरता

आज के युग में, प्रौद्योगिकी और स्थिरता (सस्टेनेबिलिटी) दो ऐसे महत्वपूर्ण विषय हैं जो न केवल हमारे जीवनशैली को प्रभावित करते हैं, बल्कि भविष्य की दिशा भी तय करते हैं। प्रौद्योगिकी के विकास ने जहाँ हमारी जीवनशैली को आसान, तेज़ और अधिक सुविधाजनक बनाया है, वहीं स्थिरता यह सुनिश्चित करती है कि हम प्राकृतिक संसाधनों का विवेकपूर्ण और संतुलित उपयोग करें ताकि पर्यावरण सुरक्षित रह सके और आने वाली पीढ़ियाँ भी इनका लाभ उठा सकें।

उप विषय 1: अन्च्छेद लेखन

'हरित ऊर्जा: स्वच्छ पर्यावरण की दिशा में एक कदम' विषय पर जानकारी एकत्र कीजिए तथा नीचे दिए गए संकेत बिन्दुओं की सहायता से १५०-२०० शब्दों में अनुच्छेद लिखिए|अनुच्छेद में प्रेरणार्थक व यथार्थवादी सूक्ति का भी प्रयोग कीजिए |

- हरित ऊर्जा का परिचय
- हरित ऊर्जा के स्रोत व लाभ
- वर्तमान समय में इसकी आवश्यकता

• सतत विकास की कुंजी

उप विषय 2 - कहानी

मुंशी प्रेमचन्द द्वारा रचित कहानी 'मंत्र ' बड़ी ही मर्मस्पर्शी है। लिंक में दी गई <u>मंत्र</u> कहानी को ध्यान पूर्वक पढ़िए तथा डॉक्टर चड्ढा व भगत के व्यवहार में क्या अंतर था? आपको किसका चरित्र प्रेरणादायक लगा और क्यों ? अपने विचार १००-१२० शब्दों में लिखिए

उप विषय 3 -पत्र लेखन

'स्वच्छ भारत मिशन' के प्रति जागरूक करते हुए अपने छोटे भाई को १२०-१५० शब्दों में पत्र लिखिए

MATHEMATICS

THEME: Technology And Sustainability Improving Our Lives

- Instruction for Holiday Homework:
 1. Choose only one task out of the two provided.
 - 2. All research work and calculations must be done on A-4 size pastel sheets.
 - 3. All the worksheets should be completed on A-4 size pastel sheets.
 - 4. You must paste the source(s) of your research on your pastel sheets.

These can include:

- Printed web pages
- Book references
- News articles or magazines (clearly labeled)
- 5. Ensure your work is neat, organized, and well-presented.

Task 1

Cost-Benefit Analysis of Sustainable Tech

Introduction:

- Transport is a major contributor to greenhouse gas emissions.
- EVs are seen as a cleaner, more efficient alternative to petrol vehicles.
- This project explores which option is **cheaper and more environmentally friendly** using maths.

Instructions:

Choose any of the following:

- One petrol vehicle (4 wheeler)
- One Electric Vehicle (4 wheeler)

Research Work

Find a credible source that provide information on the following:

- 1. What has been the price of petrol over the past 10 years?
- 2. How much does one unit of electricity cost?

- 3. Find the petrol consumed per km by different categories of cars. Also find the units of electricity consumed by different types of cars.
- 4. Find the CO₂ emissions generated over the last 5 years by petrol cars and EV cars.
- 5. Find the lifespan of an EV and a petrol car.
- 6. Find the cost of different categories of petrol and EV cars.

Comparing Fuel Cost and Emissions: Electric vs Petrol Vehicles

- 1. How much does a driver save per km by using an EV in comparison to a petrol vehicle?
- 2. If both the cars have covered the same distance annually, calculate the total CO₂ emissions for each vehicle per year.
- 3. What is the percentage reduction in CO₂ emissions when switching from a petrol car to an EV?
- 4. If the average lifetime of a vehicle is 10 years and driven 15,000 km/year, calculate: Total fuel cost for both and total emissions over the lifetime.
- 5. Find the average of different categories of petrol vehicles and EV.

Graphical Task

Plot a double bar graph comparing the cost of different categories of EVs and petrol cars.

Conclusion:

Based on your research, summarize your findings;

- What are the key factors that make EVs more cost-effective than petrol vehicles in the long run?
- How do the initial purchase costs of EVs and petrol vehicles differ, and what contributes to this gap?
- How significant is the environmental benefit of EVs when considering electricity generation from non-renewable sources?

Task 2

Mathematical Impact of Plastic Waste

Find a credible source that provide information on the following:

- 1. Find the top five plastic waste producers in the world in 2024 (tons/year).
- 2. Find the plastic waste produced by these countries in the last 5 years.
- 3. Find the waste produced by these countries.
- 4. Find the plastic consumption across different industries.
- 5. Find the amount of **plastic waste recycled** by these countries.

Based on your research answer the following questions:

- 1. What percentage of global plastic waste is generated by the top three countries combined? (approximately)
- 2. Calculate the percentage of plastic waste out of the total waste that is recycled, thrown in landfills and water bodies in 2024?
- 3. If India aims to reduce plastic waste by 25% over 5 years, what will be its target reduction in tons per year?
- 4. If India increases its recycling rate from 15% to 35%, how much more plastic will be recycled annually?
- 5. How is the per capita plastic waste in India calculated, and what is the result based on current data?
- 6. Calculate the percentage increase in the amount of plastic waste produced 10 years ago with the amount produced now in India.

Graphical Task: Create a double bar graph comparing plastic waste production in India with that of another country using data obtained from the past five years.

Conclusion:

Based on your findings summarize the following:

- In which year India produced the least amount of plastic waste as compared to the other country?
- Which plastic item takes the most time to break down, and which one decomposes the fastest? Answer as per your research above.

HHW WORKSHEETS: Class VI Maths HHW Worksheet

SCIENCE HOLIDAY HOMEWORK

CLASS VI

Theme: Technology and Sustainability - Improving Our Lives

In today's world, technology is no longer just about making life easier—it's about making life more sustainable. Sustainable technologies help reduce our reliance on non-renewable resources, minimize waste, and reduce carbon footprints.

The Tokyo 2020 Medal Project is a powerful example of sustainable technology in action. By extracting precious metals from recycled e-waste like old smartphones and laptops. It promoted responsible recycling practices and demonstrated how valuable materials can be reclaimed and reused on a large scale. This project not only minimized waste but also raised global awareness about the potential of circular economy solutions.

Fact: Tokyo 2020 Olympic medals were made by utilizing approximately 80,000 tons of e-waste collected since February 2017.

Japan made all of the medals for the 2021 Tokyo Olympics out of discarded smartphones and laptops.



Project Objective: To design and develop a sustainable solution(of your choice) that utilizes technology to minimize waste, conserve resources, and promote environmental sustainability.

Task 1: To make a Working Model of sustainable solution you choose.

Use your Research to explain it in such a creative manner that it

includes the criterias mentioned below.

Task 2: Complete

- Thinksheet 1,2,3. For Ch3: Mindful eating.
- Thinksheet 4. For Ch2: Diversity in the living world

6 Criterias for Task 1:

- Explain the Scientific principle involved.
- What problem does your model aim to solve? How does it support sustainable development goals (SDGs)? Which SDG goals are met through your solution?
- How does your model use technology to help the environment or society?
- Which sustainable resource(s) does your model use or promote?
- How is your model different from traditional methods or solutions?
- Is your model used in real life any where? If yes, where and how and at what scale? If not, what changes can be done to implement it in real life in future?

Add a touch of creativity -decorate your work with drawings, diagrams, or reused materials to showcase both your knowledge and your green spirit!

Task 3: Satisfy Your Curiosity! Dive into these engaging videos and discover new wonders that will spark your imagination and deepen your understanding!

The Plastic Eater Microbes: https://youtu.be/GUdDXx-prgo?si=CM4xbolnLPuWg1Qc

Solar Power Kitchen: https://youtu.be/5ra_w0o8oCM?si=KbTM9u5zTD1MGVmw

Chernobyl Fungus: https://youtu.be/uIgSQOtlOG0?si=fsqIcb12nu4lFjnX

SOCIAL SCIENCE

Theme: Technology and Sustainability Improving our Lives.

Submission Guidelines:

- Complete your assigned task individually on A4 sheets (ruled or plain).
- Compile your work neatly in a project file with a cover page and index.
- Decorate pages creatively with relevant pictures, borders, maps, and use a mix of text and visuals.

Solution Class Division & Task Allocation:

The class is divided into three groups by roll numbers. Each group will complete one task based on their roll number:

Roll Numbers	Assigned Task
1 – 15	Task 1
16 - 30	Task 2
31 – 46	Task 3

(Task details are provided below)

Country Allocation by Roll Number:

Each student will research their assigned country and use it as the base for their task:

Roll Numbers	Assigned Country
1, 18, 33	Germany
2, 19, 34	USA
3, 20, 35	Japan
4, 21, 36	UK
5, 22, 37	Russia
6, 23, 38	China
7, 24, 39	France

8, 25, 40	Israel
9, 26, 41	South Korea
10, 27, 42	Vietnam
11, 28, 43	Belgium
12, 29, 44, 46	Italy
13, 30, 45	Ukraine
14, 16, 31	Australia
15, 17, 32	Iraq

Documentary Viewing:

After completing their tasks, all students will watch an assigned documentary on Technology and Sustainability. This will be followed by a discussion.

Task 1: Greenprint for the Future: Eco Innovations from [Your Assigned Country]

- 1. Choose an impactful green innovation (such as smart roads, ocean-cleaning technology, eco-homes, etc.) from your assigned country and do the following:
- 2. Describe the Innovation clearly with visuals (photos, icons, or hand-drawn sketches).
- 3. Compare with a similar innovation in India using the following parameters:
 - 1.Location & Geography
 - In which region(s) is this innovation mostly used? (rural/urban, coastal, desert, forested, etc.)
 - Why is it suitable for that physical environment?
 - 2. Environmental Impact & Sustainability
 - How does it help nature? (reduces plastic, purifies water, protects forests, etc.)
 - What type of pollution or problem does it solve?
 - Does it protect plants, animals, or natural areas?

3. Civic Life & Community Involvement

- Are local people helping in creating or running this innovation?
- How do schools, women, or youth benefit from it?
- Does it improve health, hygiene, or access to services?

4. Role of Government or NGO Support

- Was this supported by laws, local leaders, or international groups (like the UN)?
- Did the government make any rules or give any help?
- 5. Economic Impact & Accessibility
- Is it affordable for poor or rural people?
- Does it save money in the long run (like cheaper electricity or fuel)?
- Can small towns or slum areas use it easily?

Task 2: Constitution 2.0: Drafting a better tomorrow

Exploring Fundamental Duties and Sustainable Practices

Title: Article 51A(h): Fundamental Duty

Objective:

To learn about Article 51A(h) of the Indian Constitution, which talks about developing scientific temper, humanism, and a spirit of inquiry and reform. This task will help you explore how this article is connected to ethical technology and protecting the environment.

Task Details:

1. What is Article 51A(h)?

- Study the **text of Article 51A(h)** and explain it keeping the following in your mind.
 - Why does it focus on scientific temper, humanism, and reform?
 - How does it relate to using technology responsibly and caring for the environment?
- Find out why this article was added to the Constitution. What challenges or needs did it aim to address?

2. Real-Life Examples:

Identify real-life examples from India where the values of Article 51A(h) were either upheld or disregarded.

You may include:

- Individuals, social reformers, or organisations that promote scientific thinking and progressive change.
- Instances where superstition or the absence of rational thinking led to negative outcomes.
- Actions by the government or civil society that encourage or hinder critical thinking and inquiry.

3. Compare with Assigned Countries:

- Examine and compare the similar environmental and technology-related laws of India and your assigned country.
- Examine the strengths and weaknesses of India's laws and discuss what lessons can be learned from them.

TASK 3: Battles That Reshaped Nations How Wars Transformed Policies, Power, and People

Task Objective:

You will explore how a major war involving your **assigned country** led to lasting changes in the world — in diplomacy, nuclear decisions, economics, and India's foreign policy. This task will help you understand how **wars go beyond battlefields** to shape the world we live in today.

✓ Step 1: Choose One War Involving Your Assigned Country

(Assigned countries are already roll-number based.)

Step 2: Answer the Following Reflective Questions

(Write in short paragraphs or points. Use examples, facts, and names of treaties or leaders where possible.)

1. What made this war unavoidable — and what lessons can nations learn from its cause?

Think about deeper causes (economic rivalry, political alliances, colonization, ideologies). How might better diplomacy or leadership have changed the outcome?

- 2. After the war, how did your assigned country's priorities shift politically, economically, or globally? Did the country become more powerful or weak? Did it focus more on building peace, expanding influence, or preventing future conflicts?
- 3. Were any arms control, nuclear, or military alliances formed because of this war? Why were these important?

Mention actual treaties (e.g., NPT, CTBT, NATO, Warsaw Pact) and how they tried to prevent future wars or reduce weapons.

4. Compare the military technology and warfare strategies used by your assigned country during a major war with those used by India in a similar or relevant wartime context.

You may focus on aspects such as:

- Types of weapons or machinery (e.g., tanks, aircraft, naval ships)
- Communication systems and intelligence
- Cyber or surveillance technology
- Defence strategies and battlefield innovations

5. Looking back — could the world have learned the same lessons without this war?

Think deeply: Did progress in diplomacy, science, or peace efforts only come because of the war — or could they have happened without destruction?

Documentaries on Technology and Sustainability

1. Our Planet (Netflix): Roll no 1 to 6

- **Topic:** The importance of preserving biodiversity and the role of renewable energy in combating climate change.
- **Insight:** How technology is used in conservation efforts to protect ecosystems.

2. The True Cost (YouTube/Netflix): Roll 7 to 12

- **Topic:** Fast fashion and its environmental impact.
- **Insight:** Encourages students to think about sustainable consumer choices.

3. Brave Blue World (Netflix): Roll no 13 to 18

- **Topic:** Innovative solutions to global water crisis.
- **Insight:** Explores technologies for water purification and conservation.

4. A Plastic Ocean (Netflix/YouTube): Roll no 19 to 24

- **Topic:** The impact of plastic waste on marine life.
- **Insight:** Shows how technology can help reduce plastic pollution.

5. 2040 (YouTube/Streaming Platforms): Roll no 25 to 30

- **Topic:** A future vision for a sustainable planet.
- **Insight:** Covers innovations in renewable energy, agriculture, and waste management.

6. Planet Earth II: Cities (BBC/YouTube): Roll no 31 to 36

- **Topic:** Wildlife in urban environments.
- **Insight:** How technology can coexist with natural ecosystems in cities.

7. The Boy Who Harnessed the Wind (Netflix – Drama Based on True Story): Roll no 37 and above

- **Topic:** A young boy builds a windmill to save his village from famine.
- **Insight:** Highlights resourcefulness and renewable energy solutions.

SANSKRIT

संस्कृत ग्रीष्मावकाश गृहकार्य कक्षा VI

आवश्यक निर्देश-

- *सभी विद्यार्थी संस्कृत गीष्मावकाश कार्य के लिए एक अलग पुस्तिका का प्रयोग करें|
- * स्पष्टता व वर्णशुद्धता का ध्यान रखें |
- * अपनी कार्यपुस्तिका में लगे हुए प्रश्नवाचक चिहनों तथा अपने अपूर्ण कार्य को पूर्ण अवश्य करें|
- 1. पचास शब्दों का लिंगानुसार एक संस्कृत शब्दकोश बनाएं। (पचास स्त्री. व पचास पु. यथा – पिक ------पिका) शब्दों का चयन स्वयम् कर सकते हैं
- 2. अस्मद्,युष्मद् व तत् शब्दरूपों में लट् व लृट् लकार का प्रयोग करते हुए सरल संस्कृत के तीस वाक्य या संवाद लिखें |
- 3. संस्कृत मंजूषा पाठ्यपुस्तक में शब्दकोश में दिए गये शब्दों को अर्थ सहित कंठस्थ करें |

SPANISH

1) La Bandera de España Y India

(Make Spanish and Indian flag together)



2) Write 50 new Spanish words from dictionary on a handmade pocket dictionary



3) Nacionalidades

write Any 5 eminent Spanish and Indian personalities with their images

4) Make /draw 10 animals with their Spanish names (3D/ A4 sheet)

