INSPIRE • INNOVATE • SUCCEED

IMPERIAL HERITAGE SCHOOL
SECTOR-102, GURUGRAM

HOLIDAY HOMEWORK

CLASS VII
2025–26

"Learning doesn't take a break, and neither should our curiosity."

Dear Parents,
Greetings!

At Imperial Heritage School, we believe in nurturing young minds not just during the academic session, but beyond the classroom as well. Holiday homework plays a pivotal role in reinforcing classroom learning while encouraging independent exploration. It offers students the chance to engage with subjects at their own pace and reflect creatively on what they've learned.

🌿 Why Holiday Homework?

- To maintain continuity in the learning process.
- To apply concepts in real-life scenarios.
- To encourage responsibility, time management, and creativity.
- To foster research, problem-solving, and critical thinking skills.

📂 Project-Based Learning: Each task or project has been designed in alignment with the CBSE curriculum framework and guidelines, ensuring relevance, engagement, and developmental appropriateness. These projects aim to promote a hands-on, practical approach that bridges theory with real-world applications.

📝 Evaluation Criteria (Rubrics)
Each subject's Holiday Homework will be evaluated as part of the Internal Assessment, based on the following parameters:

Content	**Presentation**	**Relevance**	**Creativity**	**Originality**	**On time Submission**

Smart Tips for Completing Your Holiday Homework

📌 Be Original
Let your work reflect your own thoughts and creativity. Avoid copying—originality always stands out!

📌 Plan Your Time Wisely
Divide your work across the holiday period to avoid last-minute stress. A little work each day goes a long way!

📌 Read Instructions Carefully
Each subject has specific guidelines. Go through them thoroughly before beginning.

📌 Neatness Matters
Good handwriting leaves a lasting impression. Ensure your work is clean, well-organized, and legible.

📌 Creativity Counts
Add a personal and creative touch to your presentations—be it through design, layout, or illustrations.

📌 Leisure Reading is a Must
Take time to read books of your choice. Reading enhances imagination, vocabulary, and comprehension skills.

📌 Practice Math Daily
Math requires consistency. Set aside time each day to revise concepts and solve problems—practice makes perfect!

📌 Parental Guidance Only
Parents are encouraged to guide, not complete, the assignments. Let students take the lead in their learning. Outside help will not be accepted and will be given zero.

📌 Focus on Quality
Aim for meaningful and well-researched content. Quality is more important than quantity.

📌 Remember the Assessment
Holiday Homework is part of Subject Enrichment Activities and will be evaluated as per the defined rubrics.
Let Curiosity Lead the Way

An inspirational poem for our learners:

"Learning Beyond the Bell"

When the school doors close and bells go mute,
Let not your books sit still or roots take root.
For in the pause, a spark may rise,
To chase new thoughts, to question why.

A walk through pages, a curious glance,
A project that gives your mind a chance—
To think, to build, to dream and do,
To craft a world from a different view.

With pencil, paint, or words you write,
You shape your learning, spark your light.
So take this time and make it shine—
For growth and joy can intertwine. ✸

Submission Date: 7th July, 2025

We look forward to seeing the wonderful work our students will create. Let this break be a time to explore, express, and evolve.
Wishing all of you a very joyful, safe and fun packed summer break. Happy Holidays!

Best Regards

Ms. Neelu Sharma
Principal



The theme "**Youth Minds, Big Plans: Designing a Better Tomorrow**" highlights the incredible potential of young people to shape a brighter and more innovative future. With fresh perspectives, bold ideas, and growing awareness of global challenges, today's youth are uniquely positioned to lead meaningful change. From harnessing emerging technologies like Artificial Intelligence, robotics, and green energy to promoting equality, education, and sustainability, young minds are already contributing solutions to real-world problems. In a rapidly evolving world, their creativity and commitment can pave the way for smarter cities, cleaner environments, and more compassionate communities. Empowering the youth to think big today is the key to building a better tomorrow for all.

In India, this potential is especially powerful. As one of the world's youngest nations demographically, India is witnessing its youth take centre stage in driving development across various sectors. From leading tech startups to contributing to landmark missions like Chandrayaan-3 and Gaganyaan, Indian youth are making their mark on the global stage. They are also playing a key role in the country's success as the pharmacy of the world, its leadership in digital payments through UPI, and its growing influence in fields like renewable energy, space technology, and artificial intelligence. Supported by visionary initiatives like Atal Innovation Mission, Startup India, Digital India, and Skill India, young Indians are turning ideas into action—creating eco-friendly innovations, building apps for farmers, launching health tech solutions, and even leading climate action campaigns. By combining creativity with purpose, India's youth are not just imagining a better tomorrow—they are building it, one bold idea at a time.

This holiday homework is more than just an academic task—it is an opportunity for students to explore the remarkable developments happening around them, reflect on the role of youth in shaping the future, and contribute their own ideas to the journey of progress. Whether through research, creative projects, or innovation, students are encouraged to think critically, dream boldly, and work with purpose. The future lies in their hands—and with knowledge, passion, and determination, they have the power to design a tomorrow that is smarter, greener, and more inclusive for all.





ENGLISH

Objective: To design a newspaper with various sections and choose a suitable name that highlights the essence of the newspaper.

Task 1 I, EDITOR!

Step 1: Read the newspapers and cut out articles related to youth who have contributed to the welfare of the society. These cut outs can be -

1. Poems , short stories
2. Actions taken by school students in their school
3. Actions taken by youth in their place of residence
4. Any other action targeted towards welfare of nature / animals / the needy

Step 2: Arrange these articles under various headings and give an attractive design. Add other sections, such as quotes, daily habits to have a better day, how to overcome weaknesses, quick tips to lead a happy life for teens and students.

Step 3: Create a newspaper using an A3 sheet. Insert / paste a few white sheets inside to give it a newspaper feel.

Step 4: Choose a name for your newspaper from any one of the following. Write the word meaning or add a subtitle to the heading that matches the name you have chosen.

1. **Dynamo** **2. The Spark** **3. The Executive** **4. The Initiator**

References can be taken from:

1. https://www.waterford.org/blog/kids-who-changed-the-world/
2. https://www.parentcircle.com/list-of-young-people-who-have-inspired-the-youth/article
3. https://www.forbes.com/sites/meimeifox/2023/11/05/teen-titans-13-young-people-making-an-outsized-positive-impact/

Newspaper template idea :



STATIONARY NEEDED :

1. ONE A3 SHEET + 6 WHITE SHEETS

Task 2 : THE LOST ART OF STORYTELLING from TELANGANA

Objective: To watch an informational video on a rural community of storytellers, design a mask centered around the characters and present the story in front of an audience using traditional scrolls.

An introduction: The storytellers of the Cheriyal community, residing in Cheriyal village in Telangana, have practiced the tradition of storytelling for over 800 years. Cheriyal Paintings are heavily influenced by temple art traditions. The scrolls served as a backdrop to the oral traditions of common people in the past. Scenes from Indian mythical epics like the Mahabharata and the Ramayana were depicted in Cheriyal paintings. Every village had its unique characteristics, favourite heroes and heroines, and a collection of tales based on regional myths.

Instructions:

1. **Video 1 :** Watch the videos given below on a traditional form of story narration in the rural parts of Telangana
   https://www.youtube.com/watch?v=zHYpnNsJp74
   https://www.instagram.com/rooftop_app/reel/C9cVXSHyGks/

2. **Video 2 :** Watch the folktale from Telangana:
   https://www.youtube.com/watch?v=ScokNdPkpew

3. Create an art scroll (as shown in the 2 videos) of the story on a light coloured A3 sheet. Draw the story in clearly divided boxes in a sequence as you saw in the video. You will have to refer to the story many times for this sequencing.
4. Now, present your story in class after the vacations! You can also create masks as shown in the image below.



Cheriyal masks for story telling



Cheriyal scroll for story telling

HINDI



यंग इंस्पिरेशन का अर्थ है युवाओं को प्रेरित करने वाली चीज़ें, घटनाएँ या व्यक्तित्व। यह वह शक्ति होती है जो किसी युवा को अपने जीवन में कुछ नया, रचनात्मक या सकारात्मक करने के लिए प्रेरित करती है। युवा किसी भी समाज का सबसे ऊर्जावान और संभावनाओं से भरा वर्ग होता है। इन्हें सही दिशा और मार्गदर्शन मिले तो वे असंभव को भी संभव बना सकते हैं। जीवन में सफलता पाने के लिए प्रेरणा बहुत जरूरी होती है। यह प्रेरणा किसी व्यक्ति, घटना, विचार या उपलब्धि से मिल सकती है।

अधिगम उद्देश्य -

1. **हरियाणा और तेलंगाना राज्यों के खेलों की जानकारी|**
2. **खेलों के प्रति भागीदारी निभाना**
3. **खेल भावना का विकास**

1. **विशेष खेल रिपोर्ट (Special Sport Report)**

   दोनों राज्यों (हरियाणा और तेलंगाना) के प्रसिद्ध किन्ही दो - दो खिलाडियों का तुलनात्मक अध्ययन करके एक रिपोर्ट तैयार करें:· चित्र

   · खिलाडियों के नाम और खेल

   · खेल की विशेषताएँ

2. '"यंग इंडिया" विषय पर आधारित प्रमुख बिंदुओं को आधार एक अनुच्छेद लिखिए|

संकेत बिंदु

- **"यंग इंडिया" का अर्थ है|**
- **भारत के युवाओं की विशेषताएँ|**
- **युवाओं की भागीदारी से भारत को लाभ|**
- **युवा पीढ़ी के सामने चुनौतियाँ|**
- **समाधान**

3. भविष्य का भारत (My Dream India)

· एक आकर्षक पोस्टर बनाओ जिसमें तुम अपने सपनों का भारत दिखाओ – साफ़-सुथरा, डिजिटल, विकसित, हरा-भरा।

MATH

Task 1: Design your own smart village/city. Use a cardboard base and make a model of city on it that includes buildings, park, kitchen garden, roads, water harvesting plant, solar panels, recycling plant etc. (Refer to the given image). Mark the dimensions for all 2 D shapes.



Task 2: Use A4 sheets and do the following :

- Find the ratio of green area to concrete area.
- Find the area and perimeter of the park.
- Find the volume of the water harvesting tank.
- Classify the shapes used in the model according to the table given below.

S.No.	Name of the shape	No. of sides	Category (triangle, quadrilateral, circle etc.)	No. of such shapes used

Task 3: PPT on Budgeting and Cost Estimation

By using the dimensions and structures from the model—such as parks, roads, buildings, and green zones—we can perform real-life calculations. This includes finding the area and perimeter of specific regions, calculating volume for utility structures like the water harvesting tank, and comparing green spaces with concrete zones to understand environmental impact, estimating the cost for building the real structure.

- Prepare an estimated budget for the following using decimals:
  1. Cost of solar panels, plants, benches, smart lights, swings
  2. Calculate total cost using basic mathematical operations.
  3. Present the most cost-effective solutions for sustainability.

There should be 6 to 10 slides in the PPT. Upload the PPT on Microsoft Teams.

Please note:

- The work should be neat.
- Showcase your own creativity in making the model and beautify the borders of A4 sheets used.
- Printouts of objects (if required) can be used in model making.

SCIENCE

PROJECT- I

The youth of India are showing great creativity by applying basic science concepts to solve everyday problems. Their discoveries and inventions reflect a strong sense of responsibility toward society. By thinking critically and observing the world around them, they are developing practical solutions that can benefit many. These young innovators are proving that even simple ideas can lead to meaningful change for mankind.

Below are the inventions of three remarkable young innovators. Roll numbers are allotted to the projects. Respond thoughtfully to the related questionnaire on A4-sized sheets.

A. Remya Jose's Innovation: Washing Clothes, Burning Calories – Sweat That Saves! (Roll no. 1 to 8)



Remya Jose, a 23-year-old, is the inventor of the washing-cum-exercise machine that won her a National Award. She invented this when she was 14 years old. Remya Jose from Kerala Sickened by the burden of the tiresome chore of washing clothes every day, she went ahead and invented the washing-cum-exercise machine.

Research about her invention and answer the following questions:

(ii) Which scientific principle allows energy from exercise (like cycling) to power a machine?

(iii) What type of energy conversion happens in this machine?

(iv) List at least two simple machines involved in the setup.

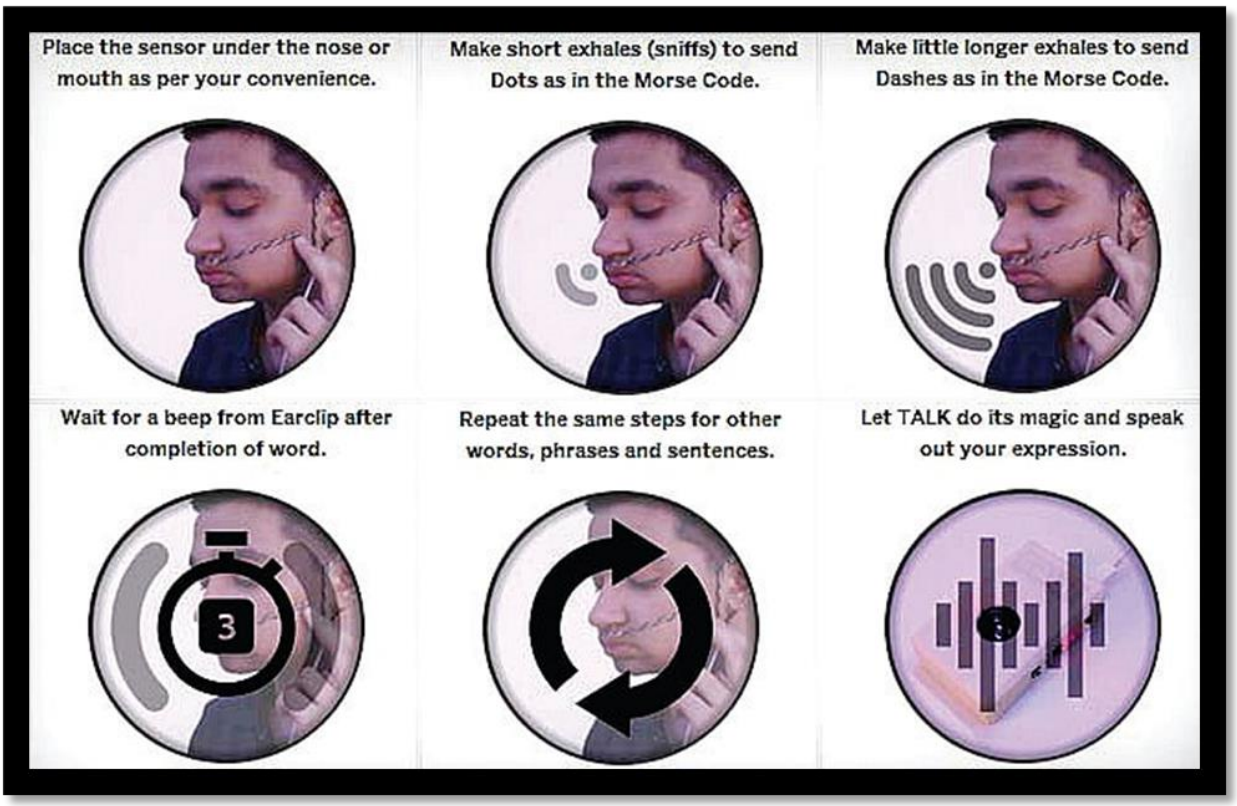
(v) Draw a suggestive diagram of the machine illustrating the use of simple machines answered in the above question.

(vi) How does this machine help in reducing carbon footprint?

(vii) Research and name any other chore that can be easily accomplished using pedal power?

B. <u>Arsh Shah Dilbagi's 'TALK' Device – Giving Voice to the Voiceless!</u>
<u>(Roll no. 9 to 16)</u>

In 2014, a 16-year-old student from Panipat, India, named Arsh Shah Dilbagi developed an innovative device called TALK. This device helps people with speech impairments communicate by converting their breaths into speech.



It has received international recognition for its impact on accessibility and assistive technology. At just 16, he won the Voter's Choice Award at the Google Science Fair 2014, becoming the only finalist from Asia that year. He was also honored at the Intel International Science and Engineering Fair (ISEF) 2015, where he won a Third Grand Award in Embedded Systems, and additional awards from the American Psychological Association and the American Intellectual Property Law Association. Arsh received a Special Mention at the Manthan Awards 2014 for E-Inclusion & Accessibility, and secured second place at the Indian Innovation Initiative (i3) 2014.

1. What form of energy is used by the TALK device to detect breath?
2.Why is breath a smart choice for helping people with speech impairments? What advantage does it have over other input methods like typing or touch?
3. The 'TALK' device works on the technology of 'Morse Code'. It is used by some groups like the U.S. Navy, amateur radio operators, and in emergency situations.

<u>Bollywood connects SCIENCE</u> 😊

In the movie *Jawan*, a hidden message is cleverly embedded using Morse code, adding a layer of intrigue for attentive viewers to decode.



Explore this technology and write a short note on it. Explain the role of breath utilized by Arsh Shah Dilbagi in this technology.

4. What part of the respiratory system is essential for producing breath signals?
5. How does TALK use binary input to form words?
6. Do you think breath-based technology could be used in other fields (e.g., gaming, health monitoring)? Give one example of how it might be useful.

C. "Cooling the Heat: Jayanthi's Solar-Powered Helmet for Safer Outdoor Work" (Roll no. 17 to 23)



In 2021, Jayanthi, a student from Government High School in Amberpet, Hyderabad, Telangana, created a remarkable and practical invention – a solar-powered cooling helmet. Designed especially for outdoor workers and laborers, her innovation aims to tackle the serious issue of heat stress, which affects thousands of people working in the sun. The helmet is equipped with a mini fan and a torch, both powered by solar energy. This invention not only enhances comfort and safety for users but also promotes the sustainable use of renewable energy. Jayanthi's initiative highlights how young minds can contribute meaningfully to occupational health and green technology.

1. How does the helmet use solar energy?
2. Why is using solar energy important in this invention?
3. How does this helmet contribute to occupational health?
4. Draw the basic design of the solar-powered cooling helmet. Label its key components such as the solar panel, fan, torch, and helmet structure.

PROJECT II (Compulsory for all)

"Be a Youth Designer" using a DC motor

Using a DC motor, design and construct a simple toy or household appliance of your choice. Document the process with a diagram, list of materials, steps involved in making it, and explain the science behind how it works. Be creative and think about how your invention can be useful or fun!"

PROJECT III (Compulsory for all)

"Healthy Youth, Strong Nation: Say No to Junk Food, Say Yes to a Healthy Mind and Body"

The youth of India can truly thrive only when it moves away from junk food and embraces a healthy, balanced diet. Junk food, though tempting, is often loaded with unhealthy fats, sugars, and preservatives that contribute to obesity, fatigue, poor concentration, and long-term lifestyle

diseases. A healthy body improves immunity and energy, while a nourished brain enhances memory, focus, and learning ability—crucial for a student's growth and success. As the saying goes, "A healthy mind resides in a healthy body"—and it is only through mindful eating that India's youth can become strong, smart, and future-ready.

Create an informative and visually engaging comparison chart of 2 commonly consumed junk foods and their healthier substitutes. For each pair, include:

- The junk food item
- A nutrient-rich, healthier alternative
- The nutritional benefits and contents of the healthy substitute

Instructions:

1. Design a table or chart comparing each junk food with its healthy counterpart.
2. Collect the nutritional information for each item, including Total Fat (Saturated and Trans fats), Cholesterol, Sodium, Total Carbohydrates, Protein, Vitamins, and Minerals (such as Calcium, Iron, Potassium, etc.). Compare these data points and organize the findings in a clear, tabular format for easy analysis.
3. Include images (drawn by hand or printed) for each item to make your project creative and attractive.
4. Add a short explanation for each substitution, highlighting:
    - Why junk food is harmful (e.g., high sugar, trans fats, preservatives)
    - How the healthy alternative supports brain function, memory, immunity, and overall well-being.

SOCIAL SCIENCE

1. My Dream Community – Live Model Making Activity (Compulsory for all)

Note- Art integrated project



Task:

Step into the shoes of a visionary! As a young architect of India with many new, innovative ideas and plans, your mission is to design a model community or town that reflects your dreams for a better, sustainable future. You can use paper, Canva, or any simple drawing tool. What to Include in Your Dream Community:

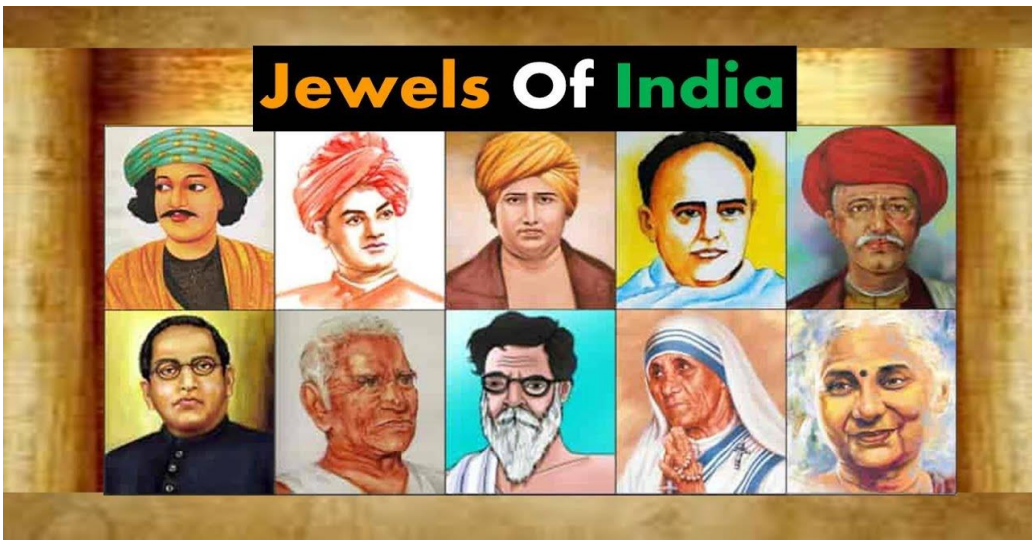
- **Eco-friendly transportation** like cycling lanes, electric buses, and walkable streets
- **Green spaces** such as parks, community gardens, and tree-lined streets
- **Essential services** like schools, hospitals, and libraries
- **Community hubs** for cultural events, sports, and social interaction
- **Sustainable practices** such as solar energy, rainwater harvesting, composting zones, and recycling centres.

Additional:

Write 5–6 lines explaining why your dream community is ideal for the future.

Use this space to express your vision and voice as a young, innovative architect of India shaping tomorrow's world.

2. Social Reformer Trading Cards- Inspired by the Past, Building the Future.



Task:

As a young changemaker inspired by great social reformers of Telangana & Haryana, India, you aim to bring a positive change in Indian society too. Let their stories guide your vision!

Activity:

Choose 2 inspiring Indian social reformers of Telangana & Haryana– like Bhagya Reddy Varma, Arige Ramaswamy, BS Venkata Rao, Ranbir Singh Hooda, Raja Suraj Mal and create a trading card or mini-poster for each one.

Each card/poster should include:

- Name & photo
- What issue they fought for (e.g., women's rights, caste equality, education for all)
- One powerful quote

Your reflection: "What can we learn from them today?"

(And how do you want to bring change in Indian society — what change, how, and why?)

Sample Reflection (you can use or adapt this):

"I am deeply inspired by these great Indian social reformers who fought fearlessly for justice, equality, and progress. Like them, I want to bring a change in Indian society by promoting inclusive education, environmental responsibility, and equality for all. I believe that real change begins at the grassroots level — in schools, neighbourhoods, and communities — by raising awareness and encouraging participation. Inspired by their courage and vision, I will use my creativity and voice to design a better, more equal tomorrow."

OR

Mini Documentary – "My Local Hero"- Real Stories. Real Impact. Through My Lens.
Note- Local heroes of Haryana are Kalpana Chawla, Kapil Dev, Neeraj Chopra, etc.
Local heroes of Telangana are ChityalaIlamma, Mohammad Azharuddin, Sania Mirza etc.

As a young documentary maker, you have the power to shine a light on the unsung heroes around us — the everyday people who are quietly transforming our communities. In today's world, the media plays an important role in telling impactful stories and inspiring others — especially young children who look for real-life role models. Use this opportunity to tell their story to young audiences and show how even small efforts can lead to big change.

Activity: Interview a local hero in your community who is making a positive difference (a teacher, social worker, cleaner, small business owner, etc.).

Record a 2–3-minute video, or write a short interview script that highlights:

- What do they do?
- Why their work is important?
- What do you admire most about them?

Suggested Introduction (for your video or script):

"As a young documentary maker, I believe the media has the power to inspire and educate. Today, I'm sharing the story of a local hero — someone in our community whose dedication and work often go unnoticed, but whose impact is truly powerful. Through this short documentary, I want young children to see that real heroes live among us — and that anyone, no matter how big or small, can be a force for change."

Roll no 1 to 14

3. Design a Campaign – "Save Our Planet"- Red Riding Robin Hood to the Rescue!

You are not just a student — you're Red Riding Robin Hood, a new-age eco-warrior on a mission to protect our planet! Armed with creativity, courage, and care for nature, you're ready to inspire others and take bold action.

Your mission: Design a powerful campaign poster or a slogan booklet focused on saving the Earth. Use drawings, recycled materials, or digital tools to spread your message.

Campaign Focus Areas:

- 🚯 Reducing plastic: Say no to single-use plastics, yes to reusables!
- 💧 Saving water: Drop by drop, we save the future.
- 🌳 Tree plantation: More trees, more life, more hope.
- 🌡️ Climate action in schools: Small steps by students, big impact for the planet.

🖉 Add your personal style – maybe a little comic strip where *Red Riding Robin Hood* plants trees, stops plastic pollution, or starts a rainwater harvesting project at school!

Roll no 15 to 25

3. Time Capsule: Letter to My Future Self (2040) "True patriotism isn't measured by what you receive from your country — but by the actions you take to make it stronger, kinder, and better for all."

Imagine it's the year 2040. You're now 27 years old, and you've grown into someone who proudly calls themselves a young nationalist, committed to building a stronger, greener, more united India. You've always believed that real change begins with you — and that it's not just about what the country gives, but what you give back.

Write a letter to your younger self (the person you are today), and include:

- What have you done to make the world — and India — better?
  (Did you design eco-friendly cities, educate children, clean rivers, plant trees, speak for equality?)
- What does your ideal society look like in 2040?
  (Is it clean, green, equal, peaceful, innovative?)
- What advice would you give your younger self?
  (Dream big, serve selflessly, never stop believing in the power of youth.)

Sample Opening Line:

Dear Younger Me,
It's 2040, and I'm writing to thank you for never giving up on your dreams of building a better world. As a proud young nationalist, I've lived by the belief — 'Don't ask what your country has given you; ask what you have done for your nation.'

SANSKRIT

1 स्वामी विवेकानन्दे संस्कृतभाषायां एकं अनुच्छेदं लिखतु च कुतः वयं युवा-दिवसं उत्सवयामः इति A3 पत्रे अपि लिखतु।



2.हरियाणायाः पुण्यभूमौ श्रीकृष्णेन अर्जुनाय दत्तं भगवद्गीताया उपदेशं मध्ये चत्वारः श्लोकाः चित्रैः सह हिन्दीभाषया अर्थं च A3 पत्रे दर्शयन्तु।



3 .भविष्यभारतम् (मम स्वप्नभारतम्) - एकं चित्रपटलं च सञ्चलचित्रप्रस्तुतिः च,"A3 पत्रे लिखत।

FRENCH



Objective: To encourage students to explore more about Young innovators from the Francophone world.

Task 1. Choose a young innovator or changemaker from the Francophone world.

Make a biography in French with their story and contributions on A4 sheet. Include at least one quote in French and your opinion on how they inspire youth.

Task 2. Young Innovators" Scrapbook (Cahier Créatif)

Title: *Les jeunes inventeurs du monde*

- Research 3–5 real-life young changemakers (like Malala Yousafzai, Gitanjali Rao, Boyan Slat).
- Create a colorful scrapbook or digital presentation with their photos, achievements, and your reflections—in French.

Task 3 Creative Expression (Choose One)

- **Poster**: Design a poster on *"Unity in Diversity – Telangana's Youth for a Better Tomorrow"*
- **Poem**: Write a poem titled *"My Telangana, My Pride"*

COMPUTER

The objective of this holiday homework is to encourage students to think like young changemakers and present their ideas for a better future. This could be related to the environment, education, technology, health, equality, or any issue they care about.



1. **Prepare a video using OpenShot Video Editor (an open source and free software by GNU - https://www.openshot.org/) with the following structure:**
   Scene 1: Opening Scene - The problem is discussed/shown.
   Scene 2: Dream vs Reality - Each character imagines their big dream.
   Scene 3: The Struggle - They face challenges like a lack of funds, disbelief from adults, or tech hurdles.
   Scene 4: The Breakthrough - After nights of effort, they create a working prototype/model/demo.
   Scene 5: Real Impact - Their project being used in real life (clean water system in a village, sustainable transport, etc.)
   Scene 6: Closing Panel: A Call to Action - The group looks at the horizon, tools in hand, others joining in.

2. **Create a poster using Canva (https://www.canva.com/create/posters/) on the topic "Technology in Education" - How digital learning is used in Telangana and Haryana.**



(Image only for reference)

NOTE: Submit the video and the poster (PNG format) in MS Teams.