

# HOLIDAYS HOMEWORK

## & An Inter Disciplinary Art Integrated Project

- **THEME:** ALTERNATIVE SOURCES OF ENERGY
- **CLASS:** VII
- **SESSION:** 2024-25

Dear Students,

This time of Summer vacations demands of you to put together your individual and collective energies, talents and resources to ensure the building up of functional academics as well as your creative, analytical and organizational skills. Therefore, the holidays Homework has been designed with the above list objectives in mind.

Note: Separate Instructions have been mentioned for each activity. Kindly adhere to them.


### LEARNING OBJECTIVES

- Gain a foundational understanding of energy concepts, including forms of energy, energy conversion processes
- Explore various renewable energy sources such as solar, wind, hydroelectric, geothermal, and biomass. Understand their mechanisms, benefits, limitations, and applications.
- Investigate the environmental consequences of different energy sources, including carbon emissions, air and water pollution, habitat destruction, and climate change
- Explore advancements in energy technologies, such as solar panels, wind turbines, energy storage systems, and smart grids.
- Learn about energy efficiency measures and conservation strategies to reduce energy consumption in buildings, transportation, industry, and agriculture.

## General Instructions:-

1. The holiday homework has been divided into Three parts
  - Interdisciplinary Project,
  - Subject Based
  - Ek Bharat Shreshtha Bharat.
2. All the work should be done on A4 size sheets.
3. It should be creative, neat and clean.
4. The interdisciplinary project must have following points:
  - Cover page
  - Certificate
  - Acknowledgement
  - Index
  - Bibliography
  - Size of sheet must be A-4.
5. The final date for submission of Holiday homework is Monday, 8<sup>th</sup> July, 2024

### Part-1 Interdisciplinary Project

<b>English</b>	<p><b>Q1. "ENGLISH HAIKU CHALLENGE"</b></p> <p><u>haikus (a traditional Japanese form of poetry) inspired by various alternative energy sources such as solar, wind, hydro, or geothermal energy.</u> Capture the essence of each energy source in just three lines. (Choose any 3 forms of energy)</p> <p><b>Q2. Create a news report about recent developments in alternative energy.</b></p> <p>(Gather the information from the Resources such as news articles, press releases, and scientific journals to gather information about advancements in renewable energy technologies.)</p> <p><b>Newspaper report Layout</b> →</p> <p><b>Q3. Write a debate on the topic: "The great Energy debate: Fossil Fuels and Renewables"</b></p> <p>(Include the arguments supporting the energy source's superiority for the Andaman and Nicobar Islands by researching and citing evidence related to environmental impact, energy security, cost-effectiveness, and sustainability.)</p>	 <p><b>HAIKU POEM</b></p> <p>A haiku is a three line, non-rhyming poem, with a specific number of syllables used in each line, shown below. Haikus are often about simple, natural elements and evoke strong imagery.</p> <p><b>Autumn is the best</b> 5 syllables</p> <p><b>Yellow, red, brown, leaves fall down</b> 7 syllables</p> <p><b>What a gorgeous sight!</b></p> <p>To write a newspaper report.</p> <p>Write the headline here in large letters:</p> <p>Who was involved? _____</p> <p>What happened? _____</p> <p>When? _____</p> <p>Where? _____</p> <p>Describe in more detail what happened and why.</p> <p>A quote is a comment from someone about what happened. Can you include a quote here? Remember to identify who said it.</p>
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<b>Hindi</b>	<p>1 ऊर्जा के स्रोत के बारे में एक अनुच्छेद लिखिए वह चित्र भी चिपकाइए A4 साइज शीट पर</p> <p>2 विद्यार्थियों के लिए पर्यावरण के लिए बेहतर विकल्प क्या है और इनका उपयोग क्यों महत्वपूर्ण है? सचित्र वर्णन कीजिए A4 साइज शीट पर</p> <p>3 जल हवा और सौर ऊर्जा क्या है और यह हमारे जीवन में किस प्रकार मदद कर सकते हैं?</p>
<b>Sanskrit</b>	<p>प्रश्न 1 . वर्तमान में भारत में स्थित किन्हीं दो विद्युत परियोजनाओं के नाम संस्कृत में (चित्र सहित ) लिखें।</p> <p>प्रश्न 2. उत्तराखंड स्थित टिहरी विद्युत परियोजना का संस्कृत में विवरण दे।</p>
<b>French</b>	Mention the types of Alternative sources of energy in French language and paste their pictures on A3 size sheet.
<b>Maths</b>	<p>1) Conduct a telephonic survey of at least 10 people in your 'friends and relatives' who uses different types of fuels (Petrol , Diesel , CNG and Electricity ) for their vehicles . Show the information that you collected in the form of bar graph.</p> <p>2) Find the cost of different fuels ( Petrol , Diesel , CNG and Electricity ) for the 100 km distance travelled by a car. Represent them in Tabular form.</p> <p>Where ,</p> <p>the cost for travelling 1km distance by petrol car = ₹4</p> <p>the cost for travelling 1km distance by diesel car = ₹3</p> <p>the cost for travelling 1km distance by CNG car = ₹3/2</p> <p>the cost for travelling 1km distance by electric car = ₹1/4</p> <p><b>Instructions: Make the bar graph and the Table on A-4 size sheet and decorate it.</b></p>
<b>S. Studies</b>	<p>1. Make a list of Non-conventional sources of energy (with beautiful pictures) . Why is there a need for harnessing non-conventional sources of energy today ? Explain.</p> <p>2. State four advantages and disadvantages of producing electricity from solar energy .</p> <p><b>Instructions:-Use A4 size sheet for pictures.</b></p>
<b>Science</b>	<p>Look at some electrical appliances at your home. Do you see the labeling on them? Research and gather information and write on an A-4 size sheet.</p> <p>A) What do the stars in the red area show?</p> <p>B) What is the BEE star rating?</p> <p>C) What type of appliances has such a label?</p>

## Part-2 Subject Based Project

<b>English(</b>	<p><b>Q1. Paint and write activity:</b> Take any earthen utensil/clay utensil, paint it nicely and write the rules of any one tense (PRESENT/PAST/FUTURE) (include all four parts of each tense). <b>For example:-</b> Present:- Simple present, Present Continuous, Present Perfect, Present Perfect Continuous.</p> <p>(you may decorate it with any available material for beautification)</p> <p><b>Q2. Choose any book/novel which you've read earlier and design a beautiful book cover of the same.</b> <b>Make it a colourful one and add all the necessary information about it.</b></p>
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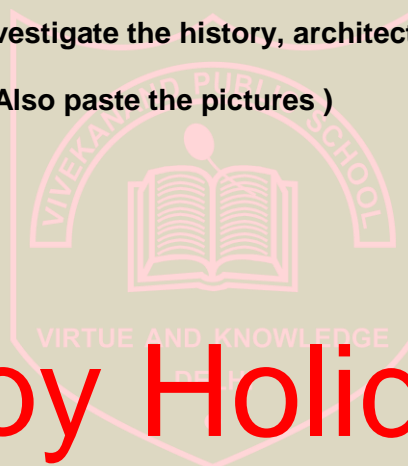
	<p>Assignment Link: <a href="https://drive.google.com/file/d/10TWAL-AV8iOoh3GW_nl304jXjQdyIRMr/view?usp=sharing">https://drive.google.com/file/d/10TWAL-AV8iOoh3GW_nl304jXjQdyIRMr/view?usp=sharing</a></p>
Hindi	<p>प्रश्न 1 निम्नलिखित में से किसी एक विषय पर विज्ञापन तैयार कीजिए( चार्ट पेपर पर ) रक्तदान शिविर, कला प्रदर्शनी बैग बनाने वाली कंपनी, बालों में लगाने वाले शैंपू, दीवार घड़ी, शरीर निरोग रखने वाले साबुन, दूध पेस्ट  प्रश्न 2 अनेक शब्दों के लिए एक शब्द एक वृक्ष के माध्यम से दर्शाइए ( चार्ट पेपर पर )  Do the given assignment on A-4 size sheet by clicking on the link given below:  <a href="https://docs.google.com/document/d/1noOffScJD-VMwEyjZRVTPDU6zWkKBKnN/edit?usp=drivesdk&amp;oid=112573418297292551256&amp;rtf=true&amp;sd=true">https://docs.google.com/document/d/1noOffScJD-VMwEyjZRVTPDU6zWkKBKnN/edit?usp=drivesdk&amp;oid=112573418297292551256&amp;rtf=true&amp;sd=true</a></p>
Sanskrit	<p>प्रश्न 1. 1 से 100 तक संख्या संस्कृत में लिखें।।  प्रश्न 2. विद्या महिमा पर 5 श्लोक हिंदी भावार्थ सहित लिखे। (चार्ट पेपर पर)  Do the given assignment on A-4 size sheet by clicking on the link given below:  <a href="https://docs.google.com/document/d/1tsfdgfEmWMT3CWU_A1GMfpXtbB8P7Wml/edit?usp=drivesdk&amp;oid=100709572283025957513&amp;rtf=true&amp;sd=true">https://docs.google.com/document/d/1tsfdgfEmWMT3CWU_A1GMfpXtbB8P7Wml/edit?usp=drivesdk&amp;oid=100709572283025957513&amp;rtf=true&amp;sd=true</a></p>
French	<ul style="list-style-type: none"> <li>• Draw a human body A3 size sheet and label the body parts in french language ..</li> <li>• Make a collage of culture and civilization of France</li> <li>• Learn lesson 0,1 and 2</li> </ul>
Maths	<p>1.Make a working model on</p> <ul style="list-style-type: none"> <li>• Mathematics Multiplication Calculator(Roll no. 1-5)</li> <li>• Types of Angles(Roll no. 6-10)</li> <li>• Properties of Triangle(Roll no. 11-15)</li> <li>• Multiplication machine (Roll no. 16-20)</li> <li>• Division machine(Roll no. 21-25)</li> <li>• Calculator(Roll no. 26-30)</li> <li>• Vertically Opposite Angles(Roll no. 31 onwards)</li> </ul> <p>2. Do the given assignment on A-4 size sheet by clicking on the link given below:  <a href="https://docs.google.com/document/d/1aVzjW2KYM90hOJbLfKqfzhBI_KTGR7Z8/edit?usp=drivesdk&amp;oid=106480544834871565867&amp;rtf=true&amp;sd=true">https://docs.google.com/document/d/1aVzjW2KYM90hOJbLfKqfzhBI_KTGR7Z8/edit?usp=drivesdk&amp;oid=106480544834871565867&amp;rtf=true&amp;sd=true</a></p>
S.studies	<p>Our constitution plays a big role in people's struggle for equality. So make a chart/model/collage and collect information about it.Topics are:-</p> <ol style="list-style-type: none"> <li>1.New parliament design and structure</li> <li>2.Voting process system</li> <li>3.War memorial (any one)</li> </ol> <p>Instructions :-Use A3 size sheet for chart/collage/picture  Roll no. - 1-20 , make chart and model  21-33 ,make collage and model</p> <p>Do the given assignment on A-4 size sheet by clicking on the link given below  <a href="https://1drv.ms/w/s!AhQ1-JWim-GzaWtZWvM7hBcme2E">https://1drv.ms/w/s!AhQ1-JWim-GzaWtZWvM7hBcme2E</a></p>
Science	<p>1.Make a working model of</p> <ul style="list-style-type: none"> <li>• Wind energy(Roll no. 1-5)</li> <li>• Solar energy(Roll no. 6-10)</li> </ul>

	<ul style="list-style-type: none"> <li>• Hydro power plant(Roll no. 11-15)</li> <li>• Magnetic power swingRoll no. 16-20)</li> <li>• Mini working ATM(Roll no. 21-25)</li> <li>• Pulley door system(Roll no. 26-30)</li> <li>• Atmospheric pressure powered Car(Roll no. 31 onwards)</li> </ul> <p>2. Do the given assignment by clicking on the link given below.(Do in A-4 size sheet)  <a href="https://docs.google.com/document/d/1M9RBQZ7byiO232TwCmiSzzSQBP7zNRZ6nqqW7Z551nE/edit?usp=drivesdk">https://docs.google.com/document/d/1M9RBQZ7byiO232TwCmiSzzSQBP7zNRZ6nqqW7Z551nE/edit?usp=drivesdk</a></p>
<b>Computer</b>	<p>R.No. 1-10 Make a colorful chart on Rules for Binary addition,Binary to decimal conversion, Decimal to Binary conversion</p> <p>R.no. 11-20 Make a colorful poster on different types of cyber crimes and cyber security</p> <p>R.no 21-40 Make a colorful chart showing different types of Excel chart with its features and steps to insert a chart in excel</p>

### **Part-3 Ek Bharat Shreshtha Bharat**

**Historical and Cultural Heritage :** Investigate the history, architecture and cultural heritage sites of the Andaman and Nicobar islands.

(Use A3 size sheet for information. Also paste the pictures )



# Happy Holiday!!!!

