

Holidays Homework

Theme : AI and Energy Conservation

Class : VIII

Session : 2026-27



General Instructions:

1. The holiday homework has been divided into Two parts
 - Ek Bharat Shresth Bharat
 - Subject Based
2. All the work should be done on A4 size sheets.
3. It should be creative, neat and clean.
4. Ek Bharat Shresth Bharat project must have following :
 - Cover page
 - Certificate
 - Acknowledgement
 - Index
 - Bibliography
 - Size of sheet must be A-4.
5. The final date for submission of Holiday homework is Monday, 6th July,2026

ENGLISH

A. Topic: Island Travelogue Brochure

1. Prepare a creative travelogue brochure using a chart paper or cartridge sheet.
2. Design the brochure in the cut-out shape of an aquatic animal such as whale, fish, dolphin, turtle, starfish, seashell, etc. The cut-out should be large in size, neatly cut, clearly visible and beautifully decorated.
3. Create a travelogue on any one famous island such as Andaman & Nicobar Islands, Maldives, Lakshadweep, Bali, Hawaii or Mauritius.
4. Write the travelogue creatively inside the brochure including introduction of the island, famous tourist attractions, food and culture, natural beauty, adventures or activities, personal travel experience and conclusion.
5. Students may use decorative materials such as stickers, printed pictures, glitter sheets, borders and ocean-themed decorations.

B. Kindly complete this assignment in your registers-

<https://drive.google.com/file/d/1pQuuf5zaoMnsDI3FimLujim4oEMZN3k8/view?usp=drivesdk>

HINDI

1. 'AI आया गाँव में' विषय से संबंधित 3-4 स्लोगन लिखते हुए एक 'वॉल हैंगिंग' तैयार कीजिए। (साइज़-12 x 24)
2. विद्यार्थी प्रतिदिन 10-15 शब्दों का श्रुतलेख मात्राओं के अभ्यास हेतु अवश्य लिखिए।
3. विद्यार्थी सुंदर और स्पष्ट लेख के लिए 20 पृष्ठ का सुलेख अवश्य लिखिए।
नोट: सुलेख का कार्य एक अलग उत्तरपुस्तिका में कीजिए।
0. निम्नलिखित असाइनमेंट कार्य A4 शीट पर करें -

<https://drive.google.com/file/d/1AxireAvYV-vXrzahxiX3t2DdVuWMwns4/view?usp=drivesdk>

https://drive.google.com/file/d/1JamSD5HCykk_LZo93c8PA2qabkOnDVTc/view?usp=drivesdk

MATHS

1. Do the given assignment on A-4 size sheet by clicking the link given below:

<https://drive.google.com/file/d/1WHW1idvg2lhCICjNghi7WJi611Hji6G-/view?usp=drivesdk>

- 2 Make a working model using AI:

- Angle sum property(Roll no. 1-5)
- Pythagoras theorem(Roll no. 6-10)
- Area of circle(Roll no. 11-15)
- Exterior angle property (Roll no. 16-20)
- Probability game(Roll no. 21-25)
- Puzzle game on understanding shapes(Roll no. 26-30)
- Area of 3-D shapes(Roll no. 31-35)
- Square and cube numbers.(Roll no. 35 onwards)

S.STUDIES

Q1. Make an informative and creative poster on an A3 size sheet on the topic: “Smart Villages / Smart Homes with AI”

Q2. Make a working model on the topic " Energy Conservation" according to the Roll No.s

Roll No. 1-10 Wind Energy

Roll No. 11-20 Solar Energy

Roll No. 21- 30 Biogas plant

Roll No. 31 and Above Hydro Power plant

Q3. Complete the assignment in your Notebook.

https://in.docworkspace.com/d/sbCaelOOWOipaFfE_k5unop23wlyrw5ajsp?sa=601.1074

SCIENCE

Topic- AI in Farming and Energy Saving

1. Complete the worksheet provided below, based on the concepts from Chapters 1 & 2. Please access the document via link given below and take a printout of the same.

Link- https://drive.google.com/file/d/1-B35y_8ndMICaF3GHkJWTVwRG1TX0mwB/view?usp=sharing

0. Collect information and paste pictures on:

- What is AI ?
- How AI helps farmers ?
- Smart Irrigation
- Weather Prediction
- Detecting plant diseases
- Use of drones and robots
- Benefits of AI in farming

Activity- Draw or paste pictures of:

- AI powered tractor
 - Smart greenhouse
 - Drone spraying crops
0. Make a poster on ‘AI+ Farming=Green Future’.

Include: 1. Slogans

2. Drawings

3. Energy saving ideas

Suggested slogans-

- “Save Energy,Save Earth”
- “Smart Farming,Smart Future”
- “AI for Better Harvests”

Make it colourful and informative.

4. Make a working model according to the roll no.’s.

Roll No. 1-5- Mini smart farm model

Roll No. 6-10- Working irrigation demo

- Roll No. 11-15-Automatic street light
Roll No. 16-20-Vaccum cleaner
Roll No. 21-25- RC Plane from plastic bottle
Roll No. 26-30 - Free energy water wheel
Roll No. 31-35- Hydraulic crane
Roll No. 35 and above- Cardboard microscope

SANSKRIT

1. AI आधारितं कृषिक्षेत्रम्” इति विषयम् आधृत्य एकं सुन्दरं “3D Model” रचयत।
तत् “3D Model” दृष्ट्वा संस्कृते पञ्च वाक्यानि लिखत।
2. ऊर्जा बचाओ – पृथिवी रक्षामः” इति विषयम् आधृत्य संस्कृते पोस्टरं निर्मातु।
3. नीचे दिए गए विषयों पर संस्कृत में एक-एक slogan लिखिए –

- * जलसंरक्षणम्
- * ऊर्जासंरक्षणम्
- * स्मार्ट-कृषिः
- * स्वच्छ-पर्यावरणम्

<https://acrobat.adobe.com/id/urn:aaid:sc:AP:ea19af84-22c1-4a47-8fe7-aa6a57233163>

COMPUTERS

Q 1 Design an AI Chatbot (MS Paint/PowerPoint): Ask students to create a profile for their own imaginary AI chatbot. They should name it, describe its appearance, and list what it can do for them (e.g., helping with homework or playing music).

1. **Name of the Chatbot**

Give your AI chatbot a creative and unique name.

2. **Appearance**

Draw or design your chatbot. Show its color, shape, features, and style.

3. **Description**

Write a short paragraph describing your chatbot’s personality and purpose.

4. **Functions of the Chatbot**

List at least **5 things** your chatbot can do for you, such as:

- Helping with homework
- Playing music
- Telling jokes
- Setting reminders
- Answering questions

Instructions:

- Use colors, shapes, and creativity in your design.
- Keep your work neat and attractive.

- Save your file with your name and chatbot name.

Q 2 PictoBlox AI Trainer: Use a block-based application like PictoBlox (similar to Scratch) to create a simple project. Students can use AI extensions to detect their hand movements via a camera and make a sprite on the screen move accordingly.

Your project should include:

1. **Sprite Selection**
 - Choose or create a sprite for your project.
2. **AI Hand Detection**
 - Use the AI or hand sensing extension in PictoBlox to detect your hand movements through the webcam.
2. **Sprite Movement**
 - Program the sprite to move in different directions based on your hand gestures or hand position.
2. **Project Creativity**
 - Add a background, sounds, or animations to make your project more interesting.

Instructions:

- Use block-based coding only.
- Test your webcam before starting.
- Make sure the sprite responds correctly to your hand movements.
- Save your project with an appropriate file name.

Q 3 Create a colorful and informative poster on the topic “**AI in Daily Life**” showing how Artificial Intelligence is used in different areas around us.

Your poster should include examples of AI use in:

- Mobile Phones
- Hospitals
- Schools
- Cars
- Shopping Apps
- Games

Instructions:

1. Use chart paper or create the poster digitally.
2. Add drawings, pictures, symbols, or labels related to AI.
3. Write short points explaining how AI helps in each area.
4. Use neat handwriting and attractive colors.
5. Make the poster creative and easy to understand.

Assignment

<https://drive.google.com/file/d/1fmBLKdM4NocCD5V3vyohFpJHpdUniVcz/view?usp=drivesdk>

Art and Craft

Make colourful Traditional Mask of Sikkim.

Ek Bharat Shrestha Bharat

English

Project Title:

Sikkim – Nature, Culture and Sustainability

Prepare a magazine-style project/file exploring Sikkim as a state rich in nature, spirituality and culture. Include information about festivals, monasteries, tourism, cuisine, biodiversity, climate, traditions and sustainable practices followed in Sikkim.

Write a detailed travel article or travelogue describing your imaginary journey through Sikkim. You may also include interviews, slogans, food reviews, local phrases, environmental campaigns or lesser-known facts about the state.

Choose any ONE creative writing task:

- “A Night in a Monastery”,
- “Why Sikkim is India’s Green State”,
- a debate on tourism in Sikkim,
- or a short play based on Sikkimese culture and traditions.

Sanskrit

1. सिक्किमस्य पर्वतस्य तथा कृषकस्य चित्रं रचयत।

चित्रं दृष्ट्वा वाक्ये लिखत। (use A3 sheet)

2. पत्रैः अथवा वर्णैः “Green Sikkim” इति लघु-चार्ट निर्मातु तथा संस्कृते वाक्यानि लिखत।

Social Studies

Prepare a project file on the topic:

“Sikkim – Governance, Resources & Development” to understand how the state is administered and how its resources are used for sustainable growth.

Related points:-

- Sikkim organic model
- National park
- Problem due to dams and heavy rain
- Sikkim trade

(Use A4 size sheet)

Science

Technology & Sustainability in Sikkim

Theme: A model for sustainable development

Write a short report on:

Why Sikkim became India's first fully organic state.

Mention: -

- Advantages
- Challenges
- Impact on environment and health

Maths

Make a Project on:

 Exponents & Powers with Kangchenjunga

*Write the height (in meters) in standard form (scientific notation).

*Compare heights of peaks using powers of 10.

*Convert meters to centimeters using exponents.

 Data Handling from Teesta River Rainfall Basin

*Collect monthly rainfall data and make a bar graph.

*Pie chart of rainy vs dry months.

*Average rainfall calculation.

 Algebraic Expressions from Organic Farming

*Let crops be variables (c = cardamom, v = vegetables).

*Form expressions for total production.


*Evaluate expressions for given values.

 Geometry in Rumtek Monastery

*Identify rectangles, squares, trapeziums in design.

*Draw lines of symmetry from patterns.

*Measure angles from photos.

 Mensuration using MG Marg

*Assume length and width; find area and perimeter.

*Estimate walking distance around the street.


*Tile pattern → rectangles and squares area.

 3D Shapes from Sikkim Houses

*Identify cuboid (rooms), cylinder (pillars), prism (roof).

*Make a small 3D paper model.


*Count faces, edges, vertices.

 Linear Equations from Tourism at Tsomgo Lake

*Let number of tourists be x ; ticket price equation.

*Form equations for total collection.

*Solve for different days.

 Comparing Temperatures (Integers)

*Show winter temperatures as negative integers.

*Compare summer and winter on a number line.

*Integer addition/subtraction with temperature change.

Hindi

प्रोजेक्ट शीर्षक - सिक्किम दर्शन

अनुक्रमांक 1- 20

.अपने शहर दिल्ली और सिक्किम की संस्कृति में समानताएं एवं अंतर बताते हुए तुलना कीजिए।

(स्क्रैपबुक में चित्र बनाइए और लिखिए)

अनुक्रमांक 20- 40

. 'सिक्किम क्यों प्रसिद्ध है' इस विषय पर चित्र बनाइए एवं एक यात्री के रूप में इस बारे में जानकारी लिखिए।

(स्क्रैपबुक में चित्र बनाइए और लिखिए)