



BANYAN TREE SCHOOL
SESSION :2026-27
HOLIDAY HOMEWORK
Grade: VIII

Hello Grade 8 Explorers!

Summer break is finally here! While this is your time to recharge, relax, and enjoy the sunshine, it is also a fantastic opportunity to step out of your textbooks and see the world as your classroom.

This year, your **Holiday Homework** isn't just about writing—it's about becoming **researchers, designers, and creators!** You will be diving into the culture of different states, tracking your own health like a pro scientist, and even becoming travel influencers for India's beautiful islands.



Think of these projects as your own personal summer mission. Think of these projects as your own personal summer mission. Whether you are designing a digital poster, learning ancient shlokas, or investigating how vaccines work, you are building skills that will make you a superstar in Grade 8 and beyond!

ENGLISH

As you begin with your Summer Holidays, let us plan to utilize the time wisely by doing some innovative projects. Complete the projects given to you on A3-sized sheets. You can use your creativity to incorporate things/items/materials that are easily available at home.

RESEARCH WORK: MIND MAP

(ATTEMPT ANY ONE)

- Read the Poem, 'Concrete Example,' given in your English textbook. The poem written by the acclaimed author Reginald Arkell, highlights the cobbled garden of Mrs Jones and the tiny plants that grow there.

On the basis of your reading of the poem, prepare a Mind Map for the poem. Use the following Key Themes:

- *Poem Structure*
- *Characters*
- *Key Imagery*
- *The Garden and the flowers*
- *Theme*
- *Key Events*
- *Poetic Devices*



● BOOK-READ

Read any two of the following books. Prepare Finger puppets of any one of the stories that you liked the most. On an A4-sized sheet, draw a book cover, mentioning the name of the story, the characters you liked and the name of the author. In addition, write in about 40-50 words what in the story inspired you the most.

- The Blue Umbrella by Ruskin Bond
- The Diary of A Young Girl By Anne Frank
- Treasure Island By Robert Louis Stevenson
- The Canterville Ghost by Oscar Wilde
- Around The World In Eighty Days by Jules Verne



PROJECT WORK (PORTFOLIO):

Use A4-sized coloured sheets to prepare a Travelogue on any one of your favourite Nations of the world. Use the Grammar Topics NOUNS and DETERMINERS to describe the cuisine, dresses, places to visit, scenic beauty and culture and heritage of the country. Add a nice slogan/ quotation to describe the country. You may use postage stamps, counterfeit notes for currency, and coloured pictures of the famous places of visit, of that country.



HINDI

1. एक भारत श्रेष्ठ भारत (Project work):

दो राज्यों का चयन कर उनकी भाषा, वेशभूषा, भोजन, त्योहार और नृत्य पर हिंदी में परियोजना बनाएँ। भारत का नक्शा बनाकर राज्यों को दर्शाएँ और चित्रों से सजाएँ। अंत में तुलना तालिका और "विविधता में एकता" पर निष्कर्ष लिखें।

2. डिजिटल इंडिया (Subject Enrichment activity):

"डिजिटल इंडिया" विषय पर आकर्षक पोस्टर बनाएँ, इसमें भारत का नक्शा, मोबाइल, इंटरनेट और डिजिटल पेमेंट दिखाएँ। तिरंगे रंगों का उपयोग करें और "डिजिटल बने भारत, सशक्त बने भारत" जैसे स्लोगन लिखें। साफ-सुथरा और रचनात्मक डिजाइन रखें।



MATHEMATICS

1. Art Integration: "Tessellation & Symmetry"

Concept: Understanding Quadrilaterals & Geometry

Task: Explore the work of artist *M.C. Escher*.

- **Creation:** Use different polygons (Squares, Rectangles, Parallelograms, Rhombuses) to create a **tessellation pattern** (a tiling of a plane using one or more geometric shapes with no overlaps and no gaps) on an A4 sheet.
- **Analysis:** List the properties of the quadrilaterals you used. Prove the **Angle Sum Property** of one of your polygons by cutting its corners and pasting them to form a point (360°).

2. STEM Activity: "The Shadow Surveyor"

Concept: Direct and Inverse Proportions

Task: On a sunny day, measure the height of a small object (like a water bottle) and its shadow at three different times (10:00 AM, 12:00 PM, and 4:00 PM).

- **Data Collection:** Record your findings in a table.
- **Observation:** Calculate the ratio of **Object Height\Shadow Length**.
- **Challenge:** Use this ratio to estimate the height of a tall tree or a nearby pole without measuring it directly. Is the relationship between time and shadow length a direct or inverse proportion?

3. Daily Logic: "The Calendar Hunt"

Concept: Playing with Numbers

Task: Using the calendar for the current month:

- Identify all **Square Numbers** and **Cube Numbers**.
- Find three 3x3 square grids on the calendar and check if the sum of the diagonals is equal.
- **Sudoku Challenge:** Solve 5 "Medium" level Sudokus and paste them in your notebook to improve logical reasoning.
- **Submission Guidelines**
Complete the homework neatly.
Include a cover page with your name, class, and section.
Use proper tools for drawings and measurements.

Materials Needed

- A4 sheets to make a booklet
- Colour pencils, sketch pens, markers
- Glue, scissors
- Pictures from newspapers, magazines, or internet printouts

- Notebook for rough work to note down your research
- All sections should have a separator page indicating the sections
- Worksheet to be done in ruled A4 sheets .The worksheet also needs to be attached.
- Creativity and curiosity!

Instructions

Create a booklet using A4 size sheets. Start by making a cover page that must have your particulars on it. Make the cover page creatively- it must reflect the topic.

1. Art Integration: "Tessellation & Symmetry"

Focus: Geometric precision, property identification, and hands-on proof.

Criteria	4 (Exemplary)	3 (Proficient)	2 (Developing)	1 (Beginning)
Tessellation Quality	Flawless pattern with no gaps or overlaps; creative use of Escher-style flow.	Consistent pattern with minimal gaps; shapes are clearly defined.	The pattern is visible but contains several gaps or overlapping shapes.	Incomplete patterns or shapes do not fit together as a tessellation.
Geometric Properties	Detailed and accurate list of properties for all quadrilaterals used.	Accurate list of properties for most quadrilaterals used.	Brief list with some minor errors in geometric terminology.	Incorrect or missing properties of the shapes used.
Angle Sum Proof	Precise execution; corners meet perfectly to form exactly 360° at a point.	Good execution; corners form a point with minor alignment issues.	Attempted proof, but corners do not align to form a clear 360° point.	Proof is missing or logically incorrect.
Presentation	Exceptional neatness, color-coded shapes, and professional layout.	Neat and organized work with clear labels.	Legible but lacks organization or color distinction.	Untidy work; difficult to interpret the patterns or proof.

2. STEM Activity: "The Shadow Surveyor"

Focus: Data accuracy, proportional reasoning, and real-world application.

Criteria	4 (Exemplary)	3 (Proficient)	2 (Developing)	1 (Beginning)
Data Accuracy	The table is complete with precise measurements for all three specified times.	The table is complete with minor rounding errors in measurements.	The table is partially filled or measurements seem inconsistent.	Incomplete data or measurements were not taken.
Ratio Calculation	All ratios (Object Height\Shadow Length) are calculated correctly and show a clear pattern.	Ratios are calculated correctly with minor arithmetic errors.	Ratios are calculated but the relationship between them is unclear.	Calculation is missing or consistently incorrect.
The Challenge	The height of the tall object is accurately estimated using the ratio; logic is sound.	Estimation is provided with a logical process but slight math errors.	Estimation is provided but the link to the ratio is weak or unexplained.	No estimation provided or the method used is irrelevant.
Conceptual Logic	Clear, correct explanation of the relationship between time and shadow length.	Correct identification of the proportion with a brief explanation.	Identified the proportion type but provided a flawed explanation.	Incorrectly identified the type of proportion.

3. Daily Logic: "The Calendar Hunt"

Focus: Number recognition, pattern verification, and persistence.

Criteria	4 (Exemplary)	3 (Proficient)	2 (Developing)	1 (Beginning)
Number Identification	All Square and Cube numbers in the month are correctly identified.	Most Square/Cube numbers identified; one or two omissions.	Only Square or only Cube numbers identified.	Incorrect identification of number types.
Grid Investigation	Three 3x3 grids analyzed; diagonal sums calculated perfectly and compared.	Three 3x3 grids analyzed with minor calculation errors.	Fewer than three grids analyzed or diagonal sums not compared.	Calculation for grid sums is missing or entirely incorrect.

Criteria	4 (Exemplary)	3 (Proficient)	2 (Developing)	1 (Beginning)
Sudoku Completion	5 "Medium" Sudokus solved correctly and neatly presented.	4-5 Sudokus solved with minor errors or messy presentations.	2-3 Sudokus solved or difficulty level was "Easy."	1 or no Sudokus completed.
Logical Reasoning	Work shows a high level of accuracy and systematic approach to the tasks.	Work is mostly accurate and follows the logical steps required.	Work is somewhat disorganized; logic is inconsistent.	Tasks appear guessed or copied without logical

SCIENCE

As we head into the summer break, it's time to move beyond the classroom and look at health as a lived experience. This summer, you will become "Immunology Researchers" and "Lifestyle Analysts." Please follow these instructions carefully:

- **Use A4 sheets** for all your work.
- **Add photos** of yourself performing the activities or reviewing your records!
- Punch your sheets and tie them neatly with a ribbon.

Page -wise flow:

Cover Page: The Wellness Explorer

Get creative! Use colours, sketches, or a collage that represents health as "The Ultimate Treasure".

- **Student's Name:**
- **Class & Section:**
- **Roll Number:**

Page 1: The Personal Health Audit

Health is a state of complete physical, mental, and social well-being—not just the absence of disease. For **three days**, track your habits to see where you stand.

I. The 3-Day Habit Tracker

Log your activities for three consecutive days. Aim to limit screen time and choose wholesome food. Add suitable pictures/ drawings to show your digital intake, physical activity and dietary choices.

Category	Day 1	Day 2	Day 3
1. Digital Intake (Hours spent on mobile/PC/TV)			
2. Physical Activity (Minutes of exercise/sports)			
3. Dietary Choices (Wholesome vs. Processed/Junk)			
4. Sleep Duration (Total hours of rest)			

II. Reflection: Mind & Environment

Our feelings and surroundings matter just as much as our physical body.

Observation Factor	Impact on my Mood & Well-being
1.Environmental Factor (e.g., Was your room/park clean or polluted?)	
2. Social Connection (e.g., Did you spend quality time with family/friends?)	
3. Digital Impact (e.g., How did you feel after long screen sessions?)	
4. The "Health Mantra" (One change you will make for Day 4)	

Required Photo: Attach a photo of yourself staying active (playing, cycling, or yoga) or cleaning your room!

Page 2: The Immunology Research Project

Vaccines provide "acquired immunity" by training the immune system to recognize and attack harmful germs.

- **The Task:** Locate your childhood vaccination card. **Attach a photocopy** to this page.
- **The Analysis:** Research at least **four** vaccines listed on your card and fill the table.

Name of Vaccine	Disease it Protects Against	Causal Agent (Virus/Bacteria/Protozoa)	Age At which You Got Vaccinated	How it Spreads (Air/Water/Vector)
Example: BCG	Tuberculosis (TB)	Bacteria	within the first 24 hours of birth	Air
1.				
2.				
3.				
4.				
5.				

Page 3: Community Health Awareness

Many non-communicable diseases (NCDs) in India are linked to lifestyle and environment. Choose **one** (e.g., Diabetes, Obesity, or Asthma).

- **Task:** Create a **colourful Infographic** for your family members. An infographic is a picture that explains information in a simple and interesting way.
- **Include:**

- ❑ **Three signs/symptoms** of the disease (e.g., for Diabetes: frequent urination, excessive thirst, tiredness).
- ❑ **lifestyle changes** to prevent or manage it (e.g., regular exercise and a balanced diet).
- ❑ **One quote** about health. You may include a meaningful Urdu or Hindi *sher* (couplet) here!

Required Photo: Attach a photo of you presenting your Infographic to a family member!

Page 4: Assessment Rubric

Attach this exact table to the last page of your project.

Project Evaluation Rubric

Criteria	Needs Improvement (1-2)	Good (3-4)	Excellent (5)	Self-Review (Marks)	Teacher's Review (Marks)
Presentation	Disorganized; missing ribbon/A4 format.	Organized and legible work.	A4 sheets neatly tied with ribbon; creative cover.		
Scientific Accuracy	Significant errors in facts/pathogens.	Mostly accurate information.	Correct identification of pathogens and NCD factors.		
Research Depth	Incomplete research or missing data.	Basic table and audit provided.	Detailed vaccination table and complete 3-day audit.		
Visual Evidence	No photos of the student included.	Some photos included.	Clear photos of the student performing all tasks.		
TOTAL			Maximum Marks: 20	Total:	Total:

SOCIAL SCIENCE

PART A: MODEL MAKING

Task: Choose any ONE topic from the list below and create a 3D working or display model:

1. Mughal Court
2. Delhi Sultanate
3. Hampi Chariot
4. Sources from Marathas
5. Monuments made by Mughals
6. Thanjavur Style Painting
7. Revolt of 1857



8. Surrender of Dutch Forces to Marthanda Verma
9. Sansad Bhawan
10. Wastewater Recycling Plant
11. Any architecture, art form, or sculpture from the past



Model Guidelines

- Use materials like cardboard, clay, paper, colors, recycled items, etc.
- The model should be:
 - Neat and well-labeled
 - Creative and visually appealing
 - Relevant to the chosen topic
- Add labels, captions, or small descriptions to explain parts of your model
- The size should be manageable (easy to carry to school)

Examples of What to Show

- Historical scenes (battles, courts, events)
- Famous monuments or buildings
- Art styles or paintings recreated in 3D
- Functional models (e.g., recycling plant)

PART B: CLASSROOM PRESENTATION

Each student will present individually for 1–2 minutes.

Your presentation must include:

1. Introduction: Name of the topic
2. History : When and how it originated, Important people/events related to it
3. Importance: Why it is important in history/art/architecture
4. Significance : Its impact or relevance today
5. Conclusion: A short closing statement

SANSKRIT

निर्देश: रंगीन पेन, चित्र, कटिंग आदि का प्रयोग करें। हर कार्य को आकर्षक बनाएँ।

1. पाँच पेज सुलेख लिखें।
2. श्लोक याद करें: 5 संस्कृत श्लोक (जैसे भगवद्गीता) याद करें और उनका अर्थ लिखें।
3. सामान्य जीवन से शब्द: घर के 10 सामानों के नाम संस्कृत में चित्र सहित लिखें।

KAUSHAL BODH

"Atulya Bharat: The Island Jewels"

Project Focus: Creating a digital or print advertisement to promote tourism for the Government of India.

1. What will I be able to do?

By the end of this HHW, you will be able to:

- Identify key elements of an effective advertisement.
- Identify unique selling points (USPs) of Lakshadweep/ Andaman & Nicobar Islands.
- Design a professional-grade advertisement (digital or print) to persuade tourists to visit these islands. (choose Lakshadweep **OR** Andaman & Nicobar Islands)

2. Instructions (Steps to Take)

Follow these steps to complete your project:

- **Step 1: Research-** Investigate Lakshadweep or Andaman & Nicobar Islands as per your choice. Focus on what makes them special: examples-beaches, coral reefs, water sports, or historical sites like Cellular Jail.
- **Step 2: Understand the Audience** Decide who your advertisement is for. Is it for families, adventure seekers, or nature lovers?
- **Step 3: Identify Key Elements** Plan the core parts of your ad using **Table 6.3 (page 155 of Kaushal Bodh Book)** as a guide:
 - Logo & Tagline:** Use the "Incredible India" logo or create a specific one for the islands.
 - Call to Action (CTA):** What should people do? (e.g., "Book Your Island Getaway Now!").
 - Visuals:** Collect or draw eye-catching images of clear blue waters and greenery.
- **Step 4: Design Your Ad**
 - Print Option:** Create a handmade poster on chart paper using markers and paints.
 - Digital Option:** Use tools like MS PowerPoint or Canva to design a digital flyer or a short social media "Reel".
- **Step 5: Review & Feedback** Show your draft to a family member or friend. Ask if it makes them want to visit the islands and use their feedback to improve it.

3. How do I keep myself and others safe?

- **Internet Safety:** Use the internet under adult supervision and do not share personal information on websites.
- **Ethical Advertising:** Ensure your ad is truthful and does not use false claims.
- **Copyright:** If you use photos from the internet, mention the source to avoid plagiarism.

4. All students must have the given rubric- attached to the print ad, if it is a digital one please submit a copy of the rubric with your name on it.

Criteria	5 (Excellent)	3/4 (Good)	1/2 (Needs Improvement)
Creativity & Visual Appeal	The ad is highly unique, colourful, and instantly catches the eye.	The ad is attractive and follows a clear theme.	The ad lacks colour or looks unorganized.

Clarity of Message	The tagline and benefits of the islands are very clear.	The message is understandable but could be sharper.	It is unclear what is being advertised.
Persuasive Power	Strong "Call to Action" that strongly encourages travel.	Has a basic "Call to Action."	No clear "Call to Action" present.
Content Accuracy	Highlights accurate features of the specific islands.	Mostly accurate but general information.	Contains incorrect information about the islands.
Professionalism	Digital/print work is neat, properly labelled, and cited.	Work is neat with few errors.	Work is messy or incomplete.

