



BIRLA PUBLIC SCHOOL, PILANI

**SUMMER HOLIDAY
ASSIGNMENT**

SESSION 2026-2027

CLASS VIII

Name of the Student

Class Section

House House No.

ENGLISH



Vidya Niketan Birla Public School, Pilani



SUMMER VACATION

HOME ASSIGNMENT 2026-27

SUBJECT-ENGLISH

CLASS-VIII



GENERAL INSTRUCTIONS:



1. Maintain a separate file for English Holiday Homework.
2. Write neatly and creatively.
3. Use colours, drawings, and proper headings.
4. Attempt all questions.

Q1. CREATIVE WRITING (ANY TWO)

- a) Write a diary entry about your most memorable day of the vacation.
- b) Write a story beginning with:
"It was a bright morning, but something unusual was about to happen..."
- c) Compose a Limerick poem (05 lines) on Nature or Friendship.



Q2. APPLICATION-BASED WRITING

- a) Design a poster on "Save Water, Save Future".
- b) Write a notice for a school event: Inter-House Debate Competition.



SAVE WATER
SAVE FUTURE



Q5. TOPIC: "THE IMPACT OF TECHNOLOGY ON READING HABITS"

Task Guidelines:

1. Conduct a survey of 5-10 people:
 - i. Do they prefer books or digital reading?
2. Record responses in a table/graph.
3. Analyse:
 - i. Advantages of both
 - ii. Your conclusion



Stay Safe,
Stay Happy,
Keep Learning!

SECTION B: LITERATURE

Q3. ANSWER THE FOLLOWING (ANYONE)

- a) Compare any two characters from your textbook and justify who is more inspiring.
- ★
- b) What lesson did you learn from the lesson Wisdom that Paves the Way chapter? Explain with examples.



SECTION C: ART-INTEGRATED PROJECT

Q4. Topic: "Unity in Diversity through Language & Literature"

Task:

- I. Select one Indian state (Your own state)
- II. Explore:
 - a. Language spoken
 - b. Famous literary works
 - c. Traditional art form (Madhubani, Warli, etc.)
- III. Create a visual project (chart/file) including:
 - a. Drawings or paintings
 - b. Short description in English
 - c. A translated poem/story excerpt



Q6. WRITE A REPORT (100 WORDS)



ENJOY YOUR VACATION
AND
HAVE FUN LEARNING!



HINDI

<p>प्रश्न नं 1.</p>	<p>निम्नलिखित प्रश्नों के उत्तर दीजिए।</p> <p>(१) कविता स्वदेश में कवि अपने देश के प्रति कैसा भाव व्यक्त करता है?</p> <p>(२) “स्वदेश” शब्द का अर्थ क्या है?</p> <p>(३) कवि ने अपने देश की किन-किन विशेषताओं का वर्णन किया है?</p> <p>(४) कविता का मुख्य संदेश क्या है?</p> <p>(५) कहानी में दो गौरैया कहाँ रहती थीं?</p> <p>(६) दोनों गौरैया के स्वभाव में क्या अंतर था?</p> <p>(७) कहानी हमें क्या शिक्षा देती है?</p> <p>(८) कहानी का अंत कैसा है?</p>
<p>प्रश्न नं 2.</p>	<p>अपने आसपास पक्षियों की सुरक्षा के लिए आप क्या कर सकते हैं? (कम से कम 5 बिंदु लिखिए)</p>
<p>प्रश्न नं 3.</p>	<p>अपने घर या बालकनी में पक्षियों के लिए पानी/दाना रखने की योजना बनाइए और उसका छोटा विवरण लिखिए।</p>
<p>प्रश्न नं 4.</p>	<p>भारत का नक्शा बनाकर उसमें 5 विशेष स्थानों (जैसे पर्वत, नदी, ऐतिहासिक स्थल) को चिन्हित करें और उनके नाम लिखें।</p>
<p>प्रश्न नं 5.</p>	<p>“एकता में शक्ति है”—इस विषय पर अपने मनोभावों के आधार पर एक कहानी लिखिए।</p>
<p>प्रश्न नं 6.</p>	<p>यदि आपको अपने देश के बारे में 10 वाक्यों में किसी विदेशी मित्र को बताना हो, तो आप क्या बताएंगे लिखिए।</p>
<p>प्रश्न नं 7.</p>	<p>पशु-पक्षियों के साथ हमें कैसा व्यवहार करना चाहिए? अपने अनुभव के आधार पर लिखिए ।</p> <p style="text-align: center;">या</p> <p>यदि किसी पशु ने आपके घर में आश्रय लिया हो, तो आप क्या करेंगे?</p>

प्रश्न नं 8.	“दो गौरैया” कहानी के माध्यम से लेखक प्रकृति और मनुष्य के सह-अस्तित्व (Co-existence) का क्या संदेश देना चाहता है? या कहानी के अंत में पिताजी का व्यवहार कठोर से शांत क्यों हो गया? अपने अनुभव के आधार पर लिखिए।
प्रश्न नं 9.	गौरियों के जीवन पर एक छोटा संवाद लिखिए, जिसमें एक गौरैया दूसरी को बताती है कि वह क्यों इसी घर में रहना चाहती है।
प्रश्न नं 10.	अपने आसपास के किसी स्थान (गाँव/शहर) के बारे में लिखिए—क्या वह आपको “स्वदेश” जैसा महसूस कराता है? क्यों? अपने विचार लिखिए।

MATHEMATICS

General Instruction:

1. *There are two parts of the Holiday Assignment namely **Part-A** and **Part-B**.*
2. *Part-A is Video making or Reel making which can be email to amit020458@bpspilani.edu.in or same can save it in a Pen-drive for submission.*
3. *Part-B (Worksheet attached) should be done in the separate notebook only.*
4. *Holiday Assignment given will be assessed based on Creativity, Neatness, Concept understanding and Presentation.*

PART-A

As a part of your *Holiday Homework*, you are required to create a *Reel/Video* based on the given Mathematics poem from Chapter “*Power Play*”

The Stones that Shine ...

*Three daughters with curious eyes,
Each got three baskets—a kingly prize.
Each basket had three silver keys,
Each opens three big rooms with ease.
Each room had tables—one, two, three,
With three bright necklaces on each, you see.
Each necklace had three diamonds so fine...
Can you count these stones that shine?*

Guidelines for the Activity:

- ✓ The video should be creative, innovative and engaging.
- ✓ You may use props, charts, drawings, animations or real-life examples.
- ✓ Recite the poem with proper expression, voice modulation and confidence.
- ✓ Try to explain the mathematical concepts hidden in the poem creatively.
- ✓ Duration of the reel/video should be 2–3 minutes.
- ✓ Maintain discipline, decent language and proper presentation in the video.

PART-B

Section A – Multiple Choice Questions

Q1. Which of the following represents $5 \times 5 \times 5 \times 5$?

- A. 5^3 B. 4^5 C. 5^4 D. 20^5

Q2. What is the value of: 2^5

- A. 10 B. 16 C. 25 D. 32

Q3. Which statement is correct?

- A. $3^2 = 3 \times 2$ B. $4^3 = 4 + 4 + 4$
C. $2^4 = 2 \times 2 \times 2 \times 2$ D. $5^2 = 10$

Q4. Simplify: $10^3 \times 10^2$

- A. 10^5 B. 10^6 C. 20^5 D. 100^5

Q5. Which of the following is the greatest?

- A. 2^5 B. 3^3 C. 5^2 D. 4^2

Section B – Very Short Answer Questions

Q6. Write in exponential form of 3: $9 \times 9 \times 9 \times 9 \times 9$

Q7. Expand the following: 6^3

Q8. Find the value of: 9^2

Q9. Simplify using exponent laws: a) $5^4 \div 5^2$ b) $15^2 \times 15^3$

Q10. Express 1,000,000 using powers of 10.

Section C – Short Answer Questions (3 Marks Each)

Q11. Simplify using the law: $-2^3 \times -2^4$

Q12. Find the value of:

$$3^4 - 2^5$$

Q13. Riya folds a paper in half repeatedly.

After 6 folds, how many layers are formed? Represent your answer using powers.

Q14. Write the following numbers in expanded form:

a) 4^3

b) 10^4

Q15. Simplify and verify: $7^5 \div 7^3$

Section D – Long Answer Questions

Q16. A chessboard has grains of rice placed in such a way that each square has double the grains of the previous square.

If the first square has 1 grain:

- How many grains will be on the 5th square?
- Express the number using exponents.
- Explain the pattern formed.

Q17. Solve and explain each step clearly: $(2^3 \times 2^4) \div 2^5$

Q18. During a science experiment, bacteria multiply rapidly.

A culture doubles every hour.

- Write the number of bacteria after 8 hours using exponents.
- Find the actual number if initially there was 1 bacterium.
- What mathematical pattern do you observe?

Q19. Compare the following and arrange in ascending order:

$$2^6, 3^4, 5^2, 4^3$$

Show complete calculations.

Q20. A digital company stores data in powers of 2.

- Find the value of 2^{10} .
- Why are powers of 2 important in computers?
- Explain with one real-life example.

Section E – Case Study Based Questions

Case Study 1: Social Media Challenge

Q21.

A video challenge doubles its viewers every day. On Day 1, there are 50 viewers.

- Write the viewers on Day 5 using exponents.
- Find the actual number of viewers.
- Explain why exponents are useful in such situations.

Case Study 2: Tree Plantation Drive

Q22. A school plants trees in a pattern.

Each row has twice the number of trees as the previous row.

Row 1 → 2 trees

Row 2 → 4 trees

Row 3 → 8 trees

- Write the number of trees in Row 7 using powers.
- Find the actual number.
- Identify the pattern.

Case Study 3: Online Game Levels

Q23. In an online game, points earned at each level are given by powers of 3.

Level 1 → 3^1

Level 2 → 3^2

- How many points are earned at Level 5?
- Find the difference between Level 5 and Level 3 points.
- Explain how exponents help represent large scores easily.

Case Study 4: Folding Ribbon Activity

Q24. A ribbon is folded repeatedly.

Each fold doubles the thickness.

- Represent the thickness after 9 folds using exponents.
- Find the number of layers formed.
- Why does the thickness increase rapidly?

Case Study 5: Space Research Centre

Q25. Scientists observe that a signal's strength changes according to powers of 10.

- Express 100000000 in exponential form.
- Simplify:

$$10^6 \times 10^2$$

- Mention one advantage of writing very large numbers in exponential form.

**SCIENCE
AND
SOCIAL STUDIES**

Theme: Smart Decor – Sustainable Future

General Instructions:

- Maintain a **separate notebook for Science Homework (PBL Project)**.
- The homework **will be graded** based on creativity, effort, observation, and understanding.
- Complete only the tasks given below during summer vacation.
- Remaining stages (Ideation, Planning, Prototype) will be completed **in school under teacher supervision**.

PART 1: REAL-WORLD CONNECT

Read the Passage Carefully

The Hidden Cost of Store Decorations

Many retail stores today sell modern products but still use furniture and decorations that harm the environment. A major problem is that shop interiors are often designed without thinking about sustainability. Materials like non-recyclable plastics, harmful chemicals, and poorly sourced wood are commonly used to make shelves, displays, and décor. These materials damage forests, increase pollution, and create large amounts of waste.

Another key issue is short-term use. Retail furniture and decorations are often replaced quickly to follow trends or seasonal changes. When this happens, old fixtures are thrown away instead of being reused or recycled. This leads to overflowing landfills and unnecessary use of natural resources. Many stores focus only on selling eco-friendly products, but ignore the environmental impact of the spaces where those products are displayed.

There is also a gap between what customers expect and what stores actually do. Today's shoppers, especially the younger generation, care about the planet and prefer brands that act responsibly. When a store talks about sustainability but uses wasteful designs, it creates a mismatch and reduces trust. This shows that sustainability is not just about products—it must include the entire shopping environment.

Brainstorm & Answer the Following Questions

1. How can we design décor using sustainable materials that reduce waste and can be reused in different ways?
2. How does frequently changing furniture increase environmental waste? Explain in your own words.
3. Why is selling eco-friendly products not enough if the store design is not sustainable?
4. How would customers feel if a store promotes sustainability but uses harmful materials? If you were designing a store, what one change would you make to reduce environmental harm? Why?

PART 2: RESEARCH – EXPLORE THE PROBLEM

A. Observation Activity (Field Work)

Visit any **home, school, or nearby shop** and observe:

- Types of furniture and décor items used
- Materials used (wood, plastic, metal, bamboo, etc.)
- Whether items are eco-friendly or not
- Problems like:
 - Wasted space
 - Clutter
 - Non-reusable designs
 - Harmful materials
 -

Record your observations in a table:

Item / Product	Material Used	Design Type (e.g., modular, reconfigurable, traditional)	Function (Storage, Décor, Both)	Eco- friendliness (High / Medium / Low)	Observations / Notes / Sketches

Study different materials like **wood, bamboo, recycled materials**

- Find out:
 - Strength
 - Durability
 - Cost
 - Environmental impact
- Collect information from:
 - Internet
 - Books
 - Videos

C. Interview-Based Learning

Conduct **at least ONE interview** (any one category):

1. Homeowners / Students

- What furniture or décor items do you use most?
- Do you prefer eco-friendly items? Why?
- Which items take up too much space?
- Would you pay more for long-lasting products? Why?
- Would you like furniture that can be used in multiple ways?

2. Shopkeepers / Store Owners

- Which materials are most commonly sold?
- Do customers ask for eco-friendly products?
- What complaints do customers usually have?
- Do you sell multifunctional or modular furniture?

3. Artisans / Craftsmen

- What kind of décor items do you make?
- Which materials do you use?
- Do you use eco-friendly materials?
- What challenges do you face while making products?
- Can décor be made reusable or multi-purpose?

D. Data Analysis

After completing observation and interviews:

- Identify:
 - Common problems in décor/furniture
 - Materials that are harmful
 - Good eco-friendly practices
- Answer:
What is one major problem in current décor design that needs improvement? Why is it important?

E. Report Writing

Summarize your findings in your notebook:

- Key observations (from your visits to homes, schools, or shops)
- Interview insights (important responses and learnings)
- Materials comparison (eco-friendly vs non-eco-friendly materials)
- Identified problem (one major issue in current décor design and why it is important)

Additional Task

- Record a video of your interview (with permission).
- Save the video in a pen drive and submit it after summer vacation.

NOTE FOR STUDENTS:

You are **not required to design or build anything during summer vacation.**

You will complete:

- Ideation
- Solution Design
- Prototype Development

after school reopens under teacher guidance.

Enjoy exploring, observing, and learning from the real world around you.

Wishing you a happy and productive summer vacation!

COMPUTERS

1. Create the new database with the name of “**Student**”.

Write SQL commands to create the table **Record** and fill the information with following Specification:

Field Name	Data Type
Emp_Id	Varchar(10)
Emp_Name	Varchar (25)
Age	Int (2)
Date_of_birth	Date
Mobile_No	Bigint(15)

Emp_Id	Emp_Name	Age	Date_of_birth	Mobile_No
St_1245	Rahul	35	1990/12/10	974521556
St_4561	Rohit	28	1999/08/15	985214563
St_7894	Karan	26	2000/04/21	881452632
St_4567	Daksh	39	1987/06/25	774158269
St_4587	Ansh	31	1995/02/23	685421587

2. Consider the following smart products and things. Find out what they do and which company product them.

Product	What it does	Company
Chat GPT		
Deep seek		
Nest Hub		
Alexa		
Siri		
Copilot		

3. Draw a poster/Chart on:

“Cyber Safety and Awareness ”

- “Think Before You Click”
- “Stay Alert, Stay Safe Online”
- “Your Password is Your Power”
- “Be Smart on the Internet”

LIBRARY

General Instructions: -

- Parents are requested to motivate their child to complete the work independently. Assistance may be provided only if needed.
- The holiday homework will be graded.
- Use a small notebook to complete this assignment.

Students will write a story using their thinking, imagination and creativity. In this story writing, students can take inspiration from Non-Fiction, Fiction, Reference Books read by them or from any of their travels. In which students will use some pictures related to the story. This story writing can be done in any language, Hindi or English.