

Summer Holiday Homework

(Grade 8 for session 2026-27)

English:

Have you ever looked up at the night sky and wondered what lies beyond those twinkling stars? Space is vast, mysterious, and full of secrets waiting to be discovered and you are about to become the next generation of cosmic detectives.

Create a project titled 'Mysteries of the Universe'.

Do the following tasks while making the project:

- Research one or more space phenomena: You may consider black holes, galaxies, exoplanets, or space travel technology.
- Explore Innovations: Find out how satellites, telescopes, rockets, or AI are used to study space and solve challenges on Earth.
- Create Your Own Concept: Imagine a sustainable space invention, planet, or mission that could help humanity in the future.
- Design a Fact File or Presentation: Use charts, models, or digital tools (like PowerPoint) to present your findings creatively.
[NOTE – ONLY DO ONE OF EITHER DIGITAL PRESENTATION (PPT) **OR** PREPARE PROJECTS USING ART AND CHARTS IN A PROJECT COPY]
[FOR PPT's CARRY THE PROJECT ON PENDRIVE]
- Reflect: Explain how space exploration connects to human progress and a sustainable future.

Suggested tools:

- Internet research and library books
- Presentation software (PowerPoint, Google Slides)
- Art materials for models or posters

II} Science:

You have to make any two projects from the following:

1. Make an electric circuit on cardboard with explanation.
2. Prepare a 3D diagram of plant and animal cells.
3. Make an electromagnet on cardboard.
4. Complete your notebook work.

III} Mathematics:

HHW SUMMER HOLIDAY HOMEWORK

Case Study

QI. Passage 1: During dance practice in school 6570 students of different schools are arranged in rows such that the number of students in each row is equal to the number of rows. In doing so, the instructor finds out that 9 children are left out. Find the number of children in each row of the square. What is the value depicted from the exercise?

Q. 1. How many students were left out in arrangement?

- (a) 9
- (b) 10
- (c) 11
- (d) 15

Q. 2. What is the number of students forming a square?

- (a) 6250
- (b) 6760
- (c) 6561
- (d) 6769

Q. 3. When arranged for dance, numbers of students are equal to.

- (a) Number of columns
- (b) Number of rows
- (c) Number of classes
- (d) None of these

Q. 4. Find the number of children in each row of the square.

QII.A school is renovating its old courtyard for morning assembly and sports activities. The courtyard is square in shape and has an area of 1764 square meters. The principal wants to put decorative lights along the boundary of the courtyard. Electric poles are to be placed at every corner.

1. Find the length of one side of the courtyard.
 2. Find the perimeter of the courtyard.
 3. If decorative lighting costs ₹150 per meter, calculate the total cost of lighting the boundary. Is 1764 a perfect square? Give a reason.
- How many electric poles are needed at the corners of the courtyard?

QIII.The "Kaprekar's Constant" Mystery

Task: Follow these steps for any 4-digit number (where not all digits are the same).

1. Pick a 4-digit number (e.g.8172.)
2. Arrange digits in descending order 8721and ascending order 1278.
3. Subtract the smaller from the larger.
4. Repeat the process with the result.

* The Math: How many steps does it take to reach the "magic number" 6174?

Q. Now follow this for three different numbers eg (1243, 4672 and 3285)

IV} Social Science:

Q. Make a list of 10 resources you use daily at home.

RESOURCES	TYPE (NATURAL/HUMAN - MADE)	RENEWABLE/ NON - RENEWABLE	PICTURES/DRAWINGS
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V} IT (Information Technology):

Students do it in Stick-File

Excel Project:

1. Excel Activity: Create an Excel sheet displaying the marks of 5 subjects for 10 students, using formulas to calculate total, percentage, average, and highest marks.

VI} Hindi:

कक्षा -अष्टमी विषय - हिन्दी

ग्रीष्मावकाश गृह कार्य

पुस्तक -मल्हार ,पाठ - 2, दो गौरैया

पृष्ठ संख्या -26

कार्य -

1.चिड़ियों का घोंसला

घोंसला बनाना चिड़ियों के जीवन का एक सामान्य हिस्सा है। विभिन्न पक्षी अलग अलग तरह के घोंसले बनाते हैं। इन घोंसलों में अपने अंडे देते हैं और अपने चूजों को पालते हैं।

अपने आसपास विभिन्न प्रकार के घोंसले ढूँढिए और उन्हें ध्यान से देखिए और नीचे दी गई तालिका को पूरा कीजिये। (सावधानी- उन्हें हाथ न लगाएं अन्यथा पक्षियों, उनके अंडों और आपको भी खतरा हो सकता है)

पुस्तक में सारणी दिया गया है उसी प्रारूप में उत्तर तैयार करें।

क्रम संख्या, घोंसले को कहाँ देखा, घोंसला किन चीजों से बनाया गया था, घोंसला खाली था या नहीं, घोंसला किस पक्षी का था।

2. विभिन्न पक्षियों के घोंसले के संबंध में एक प्रस्तुति तैयार कीजिये। उसमें आप चाहें तो उनके चित्र और थोड़ी रोचक जानकारी सम्मिलित कर सकते हैं।

3. अष्टमी कक्षा - व्याकरण

पुस्तकालय अथवा इंटरनेट द्वारा हिन्दी भाषा और साहित्य के वर्तमान काल के साहित्यकारों के नाम, रचनाएँ एवं अन्य जानकारियां एकत्रित करके एक फोल्डर तैयार कीजिये। (संभव हो तो चित्र भी लगाइए)

4. साभार - मैं और मेरा व्याकरण -8

VII} Sanskrit:

1. ग्रीष्मावकाशः कथं व्यतीतः?

ग्रीष्मावकाशे त्वं किं-किं अकरोत्, कुत्र अगच्छ; कस्य सह समयं व्यतीतवान्/व्यतीतवती, इत्यादीनि विषयाणि वर्णयत।

2. पर्यावरणसंरक्षणस्य महत्त्वम्

पर्यावरणस्य संरक्षणं किमर्थम् आवश्यकम् अस्ति ? वृक्षारोपणम्, जलसंरक्षणम्, स्वच्छता इत्यादीनां विषये विस्तरेण लिखत।