

# Summer Holiday Homework 2026-27

9<sup>th</sup>

**S.Sc.**

Project- Disaster Management

Natural disaster → Key points

1. Earthquake
2. Volcanic eruption
- 3.flood.
- 4.Drought.
5. Landslide.

Instructions:

- a. Students must complete their project work in a notebook.
- b. Use pictures and maps at places.
- c. If possible various forms of art may be integrated in the project work.
- d. The project must focus on the following key points-

- Meaning of disaster management.
- Why is disaster management necessary?
- Causes of any natural disaster.
- Measures used to minimize the disaster.
- Role of the government in mitigation of natural disasters.
- Give examples of any natural disasters that caused widespread damage in recent years in India and the world. (last two years)
- Prepare a report related to disaster .
- Frame questionnaires from project.

## Hindi

ग्रीष्मावकाश गृह कार्य

- 1) 'आज का शब्द' शीर्षक के अंतर्गत समाचार पत्र से प्रतिदिन एक नया हिन्दी शब्द खोज कर उससे वाक्य बनाइए |
- 2) अपनी मनपसंद कोई एक कहानी पढ़ कर लगभग 120 शब्दों में सारांश लिखिए |
- 3) 'रीढ़ की हड्डी' पाठ को आधार मानकर आप भी कुछ प्रश्न तैयार कीजिए और किसी विशिष्ट व्यक्ति का साक्षात्कार लेकर अपनी कॉपी में लिखिए |
- 4)'अपनी छुट्टियों का अनुभव' विषय पर लगभग 150 शब्दों में संस्मरण विधा में अनुच्छेद लिखिए |

## Science

Question 1- Create a comic story that explains a biological process such as a)Photosynthesis b) Respiration

Question 2- Make a scrapbook with pictures and brief note on

- a) 5 medicinal plants and their uses.
- b) 5 endangered species and how to protect them.

OR

Make a reel or video on the awareness program based on a importance of hygiene and sanitation.

Question 3- Sow seeds of different types of plants. water them regularly and observe their growth. Write down your observation in scrapbook.

## English

- 1) Compose a poem on any topic of your choice (with or without rhyme scheme)
- 2) Interview your grandparents and parents to learn about their life, achievements, experiences and inspiring life stories. Write a short report on what you discover from them
- 3) Read any novel of the choice and prepare a presentation on it to present it in the class after summer holidays.
- 4) Take a photo with your grandparents and attach with your homework .

## MATHEMATICS

Q1. (i) Rationalise the denominator of  $\frac{1}{4+\sqrt{2}+\sqrt{5}}$  .

(ii) Prove that :  $\frac{1}{1+\sqrt{2}} + \frac{1}{\sqrt{2}+\sqrt{3}} + \frac{1}{\sqrt{3}+\sqrt{4}} + \frac{1}{\sqrt{4}+\sqrt{5}} + \frac{1}{\sqrt{5}+\sqrt{6}} + \frac{1}{\sqrt{6}+\sqrt{7}} + \frac{1}{\sqrt{7}+\sqrt{8}} + \frac{1}{\sqrt{8}+\sqrt{9}} = 2$

Q2. Represent  $\sqrt{36}$  on the number line using square root spiral method (Use Chart paper).

(Scale 4 cm = 1 units )

Q3. Find the Area of an equilateral triangle of side 'a' by using heron's formula.

Q4. **Paper-Folding Heron's Formula Challenge :**

(An activity to explore the area of triangles when the height is not given )

**The Concept:** Heron's Formula.

**The Activity:**

1. Students cut out three random, large, non-right-angled triangles from coloured paper.
2. Measure the three sides (a, b, and c) using a ruler to the nearest centimeter.
3. Using Heron's Formula, calculate the semi-perimeter (s) and the final area of each triangle.
- 4 .Verification step: Students can fold the triangle to find its height, measure it, and calculate the area using  $Area = \frac{1}{2} \times Base \times Height$ .

Q5. Imagine that you and your friends are going to a remote rural village during summer holidays to teach Basic Mathematics to small children. The village has no internet facility and limited school resources. You have to make Math learning interesting by using natural and locally available TLM (Teaching Learning Materials).

(a) Campaign Planning:

(i) What will be the name of your Maths campaign?

(b) Advertisement without Internet:

(i) Since there is no internet or social media, suggest at least five ways to advertise your campaign using local methods.

(c) Natural TLM:

(i) List at least 10 natural or easily available objects you can use to teach Maths and explain how you will teach using natural resources.

(d) Creative Thinking:

(i) Create a slogan for your campaign. (ii) Suggest one outdoor activity related to Maths.

(You can draw a number line using matchsticks or natural materials.)

**कुछ करें पशुओं तथा परिंदों के लिए**

**( क ) - पक्षियों के लिए घोंसला बनाएं एवं अपने घर के बाहर किसी पात्र में जल नित्य भरें ताकि पशु- पक्षी उससे अपने प्यास बुझा सके।**

**(ख)- पक्षियों एवं पशुओं को जल पीते हुए देखने पर अपनी अनुभूति लिखित रूप में वर्णन करें तथा उनके संग अपनी 'सेल्फी' लेकर गृह कार्य पुस्तिका में चिपकाएं।**