SUMMER HOLIDAYS HOMEWORK

CLASS 8

(2025-2026)

ENGLISH

1 Prepare a collage on (5) latest/new outdoor sports on an A3 sheet, gather information about them write about their benefits in an article of about 120 words (in writing skills notebook).

2 Design a magazine cover (A3 sheet, portrait orientation) inspired by Nature poets like Wordsworth or any author like Ruskin Bond using pencil sketching/ colours /digital apps.

Incorporate typography, graphics and colours aesthetically to enhance impact.

#use interesting taglines, headlines as per the theme/ sub theme.

#Present the textual elements and lettering artistically/calligraphically

#choose colours /combinations as per the theme

#Introduction to the magazine cover has to be done in about 7/8 lines (what/who/why)

3Step into my shoe-The students will compose a monologue of 2 min on behalf of a character and enact in class ex-Ruskin's Granny/The Hermit/The King/The wounded man

4Verse Verve- compose a verse on Compassion/Tolerance in about of at least 20 lines.

HINDI

1.ग्रीष्मावकाश में अपने दादा-दादी अथवा नाना-नानी के संपूर्ण जीवन से संबंधित साक्षात्कार लीजिए और उसे संवादों के रूप में ए-4 साइज़ शीट पर चित्र सहित लिखिए ।

2.भारतीय ग्राहकों में स्वदेशी वस्तुओं को प्रसिद्ध करने हेतु स्वदेशी वस्तुओं पर एक सुन्दर विज्ञापन तैयार कीजिए ।

3.अनुच्छेद लेखन - "आज़ादी के बाद भी भारत में प्रज्लवित समस्याएँ "(100-120

शब्दों में)

4.किसी तत्कालीन विषय पर या कोई प्रेरणात्मक स्वयंरचित कविता लिखिए ।

नोट -सारा कार्य रंगीन ' ए -4 साइज़ 'शीट पर होगा जिसे पोर्टफोलियो कार्य हेतु सुरक्षित रखना होगा ।

MATHEMATICS

ACTIVITY (TO BE DONE IN SCRAP FILE)

- 1. Verify that the difference between the squares of consecutive natural numbers is equal to their sum by paper cutting and pasting of squared sheets.
- 2. Life history of any Indian Mathematician and his/her contribution in the field of Mathematics project or PPT (print outs)
- 3. Art Integration Activity: Jewellery designs of different states/Tribes using maths shapes

Worksheet

Q1) Prove that when a is a natural number such that a^2 ends in 9, a^3 ends in either 3 or 7.

Q2) If three numbers are in the ratio 5:3:7 and the sum of their cubes is 61,875, find the numbers.

ASSERTION-REASON BASED QUESTIONS:

Each question consists of two statements namely, Assertion(A) and Reason(R). To select the correct answer, use the following codes:

- (a) Both A and R are correct and R is the correct explanation of A.
- (b) Both A and R are correct and R is not the correct explanation of A.
- (c) A is true but R is false.
- (d) A is false but R is true.

Q3) A: 3087 is a perfect cube.

R: In the prime factorisation of a perfect cube, each prime factor appears thrice and forms triplets.

Q4) A: If x is a non-zero rational number, then $x^{-2} = \frac{1}{x}$.

R: Negative exponents represent the reciprocal of the base raised to the power to the positive exponent.

Q5) A: (8,15,17) are Pythagorean triplets.

R: For any natural number m>1, $(2m^2, m^2-1, m^2+1)$ are Pythagorean triplets.

CASE STUDY BASED QUESTIONS

Q6) In a class science teacher give some information to all students about Solar system in following manner. Distance of earth from sun = 149600000 km

Mass of earth = 59700000000000000000000 kg

Mass of moon = 735000000000000000000 kg

- i. Write distance of earth from sun in standard form?
- ii. Write mass of sun in standard notation?
- iii. What will be the mass of earth in standard notation?
- iv. Calculate the total mass of earth and moon.

Q7) Ramesh who is working in a multinational company earns Rs. 150000 per month. Out of his earnings he spend 1/10th on food items, 1/4th on shopping with family, 1/5th of remaining on education of his two kids and rest of money he puts on his savings. Based on the above information, answer the following questions:

- (i) How much money did he spend on the food items?
- (ii) How much money did he spend on the shopping?
- Calculate the amount spend by Ramesh on education of children. (iii)

OR

How much money did he save?

Q8) A farmer is planting apple saplings on his farm. He has 700 saplings and he wants to plant them in rows and column such that the number of saplings in each row is the same as the number of saplings in each column.

- a) What is the maximum number of rows in which the saplings can be planted?
- b) If he plants the saplings in the maximum number of rows possible, how many saplings will be left with the farmer?
- c) How many saplings would he need if he wants to increase both the number of rows and the number of columns by1?

Q9) Fill in the circles with the digits from 1 to 9 so that the sum of the squares of the numbers on each side of the triangle is equal. Do not repeat any digit.



Q10) A human heart pumps about 7×10^2 litres of blood per heartbeat. The average human heart beats about 72 times per minute. How many litres of blood does a heart pump in 1 year?

Q11) Fill in the blanks:

- a) $1^{3} + 2^{3} + 3^{3} + 4^{3} + 5^{3} + 6^{3} = (__)^{2}$. b) $1^{3} + 2^{3} + 3^{3} + __ + __ + __ = (1 + 2 + 3 + __ + __ + __)^{2} = 784$. c) $26^{3} 25^{3} = __ \times 26 \times 25 + 1$.

Q12) Observe the following equations:

M + N = K.

 $\mathbf{x} + \mathbf{Y} = \mathbf{K}$.

M is a four-digit number that is a perfect cube and N is a one-digit number that is neither prime nor composite. X is the smallest four-digit perfect cube number and Y is a three-digit perfect cube as well as a square number. Find the possible values of M, N and K.

O13) Given: - $a^m \times a^n \times a^{-p} = (a^m \times a^n) / a^p$.

i) Find the value of $6^2 \times 6^{-4} \times 6^8$.

ii) Evaluate:
$$(\frac{1}{2})^{-4} \times (\frac{1}{2})^{-8} \times (\frac{1}{2})^2 + (\frac{1}{4})^2 \times (\frac{1}{4})^{-6} \times (\frac{1}{4})^2$$
.

iii) Evaluate: $\binom{2}{2} \times \binom{2}{2} \times \binom{2}{4} \times \binom{4}{4} \times \binom{4}{4}$ iii) Find the value of x if $4^{2x-3} = 4^2 \times 2^3 \times 4$.

SCIENCE

1.Show different levels of organisation with the help of a 3-D model.

Exemplar :

Nerve cell - Nervous tissue- Brain- Nervous System

OR

Make a model on IDEAL SMART CITY, use innovative ideas to conserve energy or shift from Non renewable energy resources to Renewable resources.

2) CREATE A SCIENCE DICTIONARY USING KEYWORDS OF CHAPTERS 1,2,3,6, 19 & 20

3) Research Project:

From the records of WHO, make a list of approved Vaccines and also against which disease they are recommended.

4)Visit the National Science Museum and write your experience in 150 words.

SOCIAL SCIENCE

1) SUMMER VACATION (PROJECT WORK)

Choose any one topic

MINERAL RESOURCES: Definition of minerals, importance of minerals, World map showing the distribution of minerals across the world (Iron, Copper, Bauxite, Coal, Petroleum, Mineral oil etc), Need to conserve minerals and how to conserve minerals

or

ENERGY RESOURCES: Definition of energy resources, importance of energy resources, chart showing all the energy resources, need to conserve energy resources and how to conserve energy resources.

Or

Establishment of company rule in India: Collect the information about the wars and diplomatic policies which consolidated the position of East India Company in India .

FOLLOWING POINTS TO BE KEPT IN MIND FOR MAKING THE PROJECT:

Project should be -

a) Handwritten

- b) Has to be done in scrap file
- c) Picture based
- d) Content should be valid and related to the topic
- e) Project should not be less than 10 pages

Note: Project has to be submitted in the first week of July to the subject teacher.

2) Prepare a report : Depletion of Resources

Collect information related to the depletion of resources over the years and its impact on man's life.

Note : Write this report on A4 size sheet and paste in your Geography notebook.

SANSKRIT

- 1.चित्रम् दृष्ट्वा संस्कृते पंच वाक्याणि रचयन्तु (कोपि पंच चित्रम्)
- 2. नदी,भवत, (किम्)पुर्लिंगे
- 3.प्रतिदिनम् एकम् सुलेखम् लिखन्तु
- 4. पंच पंच फलानाम् शाकानाम् पक्षिणाम् नामानि चित्र सहितम् संस्कृते लिखन्तु
- 5 . साप्ताहिक नामानि संस्कृते लिखन्तु
- 6 संस्कृतस्य महत्त्वम् वर्णयन् स्वमित्रम् प्रति एकम् पत्रम् लिखन्तु

(सर्वे कार्य: A4 (sheet) पत्रकस्य उपरि कुर्वन्तु)

ICT

- 1. Prepare 5 Slogans/ Poem/Role Play Scripts / Skit for spreading Cyber Safety Awareness in your class and society.
- 2. Prepare Presentation on Digital Footprints and it's impact in our daily life / My Dream Enterpreneurship/ Do's and Don'ts of Screen Time.
- 3. Prepare one Quiz using presentation or any other software on Networking OR Artificial Intelligence OR Sustainable Development Goals.
- 4. Make one Snake and Ladder Game on Cyber Netiquettes/ Cyber Ethics

Multidisciplinary Holiday Homework

Class 8

"To be done in a separate file. All the subjects will be done in the same file"

ENGLISH

1. Describe the scenic beauty of Kashmir and Kerala seperately in 120 Words each along with pictures.

. (Use as many adjectives as possible)

2 Dialogue writing (at least 10 sets of dialogues) between people from

Kashmir and Kerala boasting of their rich culture

HINDI

1. तुलनात्मक निबंध (Comparative Essay): Write a comparative essay on the historical significance of Kashmir and Kerala in Hindi.

2. संवाद (Dialogue): Write a dialogue between two friends, one from Kashmir and one from Kerala, discussing their favorite foods and traditions in Hindi.

Creative Ideas

1. Poem : Write a poem comparing the natural beauty of Kashmir and Kerala in English or Hindi.

2. Short Story: Write a short story about a person who travels from Kashmir to Kerala and experiences the cultural differences.

MATHS

1. Demographic Analysis: Compare the population density, growth rate, and demographic characteristics of both states using mathematical graphs.

2. Economic Data Analysis: Analyze and compare the economic data of both states, per capita income, and poverty rates.

3. Geographical Measurements: Calculate and compare the geographical features of both states, such as area, length of rivers, or height of mountains.

SCIENCE

Compare Kashmir and Kerela on the basis of

a) Water resources

- b) AQI
- c) Energy resources
- d) Methods of Agriculture
 - f) Flora and Fauna

SST (Social Science)

1. Cultural Comparison: Compare the cultural heritage of Kashmir and Kerala, including their traditions, festivals, and cuisine.

2. Historical Significance: Research and compare the historical significance of both states, including their monuments, museums, and historical events.