Dear Students,

As the summer holidays approach, we hope you're looking forward to a well-deserved break filled with relaxation, fun, and plenty of sunshine! Before you dive into your vacation plans, we wanted to share some holiday homework to keep your minds engaged and active during the break.

Attached to this message, you'll find a set of assignments carefully crafted to reinforce and extend your learning beyond the classroom. These activities are designed to be enjoyable yet stimulating, offering you the opportunity to explore new ideas, develop your skills, and enrich your knowledge in various subjects.

While we encourage you to make the most of your time off, we also believe that learning is a lifelong journey that doesn't stop when the school bell rings. Whether you're travelling to exotic destinations, spending time with family and friends, or simply relaxing at home, we encourage you to find moments to engage with your holiday homework.

Remember, learning can take many forms, and the summer holidays present the perfect opportunity to discover new interests, pursue personal passions, and embark on exciting adventures. So, whether you're solving math puzzles, reading captivating stories, conducting science experiments, or exploring the wonders of nature, we encourage you to approach your holiday homework with enthusiasm and curiosity.

As you tackle each assignment, take pride in your efforts and celebrate your achievements, no matter how big or small. And if you have any questions or need assistance along the way, don't hesitate to reach out to us – we're here to support you every step of the journey.

Wishing you a summer filled with joy, laughter, and endless opportunities for growth and discovery. Have a fantastic break, and we look forward to hearing all about your adventures when you return!

Enjoy Your Summer Break! ����
Warm regards,
Class Teachers

"Choose one of the topics listed below and create a project based on it.”

NOTE FOR STUDENTS ON WHAT TO WRITE IN THE PROJECT: The Project
will include the following sections:
a)Acknowledgement
b)Certificate
c)Content :
I)Introduction of what they are going to write about ii)Procedure
iii)Output of the project : a story/ a report/ an interview/ a letter/
autobiography/travelogue/poetry/article etc.------ PASTE RELEVANT PICTURES
 iv)Conclusion
v)Bibliography

 WORD LIMIT : 800-1000 words.
Material : FILE

Topic: The Laburnum Top

1. What is the central theme of "Laburnum Top"?
2. How does Ted Hughes use imagery to depict the laburnum tree?
3. Explore the significance of the laburnum tree in the poem. What does it symbolize? 4. Analyze the mood and tone of the poem. How does Hughes create these effects? 5. Discuss the structure of the poem. How does it contribute to the overall meaning? 6. What is the relationship between humans and nature in "Laburnum Top"? 7. How does the poet convey the passage of time in the poem?
8. Compare and contrast "Laburnum Top" with another poem that explores similar themes. 9. Discuss the use of language and poetic devices in the poem.
10. How does "Laburnum Top" reflect the Romantic tradition in literature? **Topic**

 -Advertisement writing

1. What is the purpose of a classified advertisement?
2. What are the key components of a classified advertisement?
3. How do you effectively capture attention in a classified advertisement? 4. What are some common mistakes to avoid when writing classified advertisements? 5. How do you tailor a classified advertisement to a specific target audience? 6. What role does language and tone play in crafting a successful classified advertisement?
7. How do you ensure clarity and conciseness in a classified advertisement? 8. Can you provide examples of effective classified advertisements and analyze why they work well?
9. How do you measure the success of a classified advertisement? 10. What are some strategies for enhancing the visibility of a classified advertisement in print or online platforms?

TOPIC : POSTER DESIGNING
1.What is a POSTER ?
2.How have POSTERS originated?
3.What is the need/purpose of a POSTER?
4. What kinds of POSTERS do you know ?

5.How are POSTERS generated/DESIGNED to create awareness ?

6. Who are the people involved in a Poster ?

7.What is the format of a POSTER?

8.What are the types of POSTER in your syllabus ?

9.How do you write a POSTER ?

10. PASTE SOME PICTURES OF ATTRACTIVE POSTERS.

10. What are the important ingredients of a Poster?

11. Draw a Colorful layout of a Poster.

TOPIC: A PHOTOGRAPH

1.Write the poem in your file.

2. Write the summary of the poem.

3.Mention the poetic devices used in the poem by the poet. Mention them with examples from the poem.

4.Mention the rhyme scheme used by the poet in the poem.

5. Mention the PHASES OF LIFE suggested by the poet. Paste pics.

3. Write about the poet- SHIRLEY TOULSON – Her life, career, books/poems that she has written.

4. Paste pics in support of the poem.

5.What do you think is a Photograph? Why do we preserve photographs ? 6.Do photographs affect you? How?

7..What do you say about the poem ? Write your views about the poem. 8.Write some exclusive quotations on the topic ''PHOTOGRAPHS''

9.Write a song or a poem in English which is dedicated to the topic ''PHOTOGRAPH''.

TOPIC : DISCOVERING TUT THE SAGA CONTINUES

1.What message is conveyed through the lesson?

2.What do you think is the lesson all about?(Theme)

3.What does the title of the lesson suggest?

4.What are the main events in the lesson?

5. Describe in your own way the character sketch of King TUT.

6. Elaborate the lesson with suitable pictures.

7.What do you know about the pyramids and mummies of Egypt? Describe them.Paste some pictures.

8. What is CT Scan?What did it reveal about KING TUT.

9.Do you find the ending of the lesson appropriate. Yes/No. Give reasons in support of your answer.

TOPIC: THE SUMMER OF THE BEAUTIFUL WHITE HORSE

1.How does the story begin?

2.Who is MOURAD in the story?

3.What is the HALLMARK OF GAROGHLANIAN TRIBE in the story?

4.What is the setting of the story?

5.What is the theme of the story ?

6. Do you think Mourad had stolen the horse?

7.Paste a map of Asia and Europe and Locate Armenia, Russia, Ukraine and Uzbekistan in it .

8.What are the points to remember from the lesson?

9.What message does the story convey in the end?

10. Draw/Paste pictures based on the lesson.

11. Paste some pictures of Tribal people like Gurzars,Bhotias,Boxas and Rajis from Uttarakhand.

TOPIC: WE ARE NOT AFRAID TO DIE IF WE CAN ALL BE TOGETHER

1.Write ONE PAGE about the writer of the lesson .

2.What is the moral of the lesson?

3.Who are the important characters in the lesson

4.What are the issues that the lesson deals in?

5.Do you hold the view that the story is written in an excellent manner? Support your view by stating examples from the story. Paste some colourful pictures based on the lesson. 6.Describe the different parts of a ship?Draw a picture of a ship on sail. 7.What is the setting of the lesson?

8.What impression of the narrator do you form on reading the story?

9. State the different difficult terms used to describe the voyage.

10. Draw a map of the route undertaken by Captain James Cook and the narrator along with his family.

Political Science

Students have to **"Choose one of the topics listed below and create a project based on it."**

1. Making of the Constitution.
2. Elections in India.
3. Working of the Indian Judiciary System.
4. Social Justice: Are ethics followed in Indian Politics
5. Human Rights Act and its gratification in India.
6. Political impact on Indian Legislation.
Objectives-To enable students to probe deeper, initiate action and reflect on knowledge and skills.

To help the students become independent and empower them to choose their topic and gather data from a variety of sources, investigate varied viewpoints and acquire knowledge on the topic.

Students will get a chance to develop 21st century skills of communication, cooperation, coordination, critical thinking, creativity and collaboration to produce an extended and independent work.

Focus on the following points

1. Cover Page (having the details of the student and the topic as well as the Subject Teacher) 2. Acknowledgement
3. Certificate
4. Project Introduction
5. Body
6. Conclusion
7. Bibliography

Note- students can put pictures, mind maps, cuttings of newspapers and magazines etc.

Geography

I. Students will Prepare a detail research report on any one "Biodiversity Hotspot in India".
Important points to be kept in mind while preparing the report
- The report has to be handwritten.
- It must have a proper layout (proper cover page , Acknowledgement, Certificate, Bibliography at the end)
- There are major four biodiversity hotspots in India:

    1. The Himalayas
    2. Indo-Burma Region
    3. The Western Ghats
    4. Sundaland

Choose one among them and prepare a detail report.

- Prepare the report in A4 sheets. (Submit in proper file.)
- The report must have the pictures of endemic species of flora and fauna of the selected
  Hotspot along with the map.

II. Current Affairs Review: Research and summarize three recent news articles related to geography or environmental issues. Provide a brief overview of each article, highlighting its significance, key points, and potential implications. Reflect on how these issues connect to your coursework and what insights can be gained from them.

Psychology

1. Conduct a study in your group to see the effect of recitation on learning of poetry. Take 10 subject (select age group, other variables & constant factors , mention them) and divide them into two groups.
Group 1 Ask them to read it loudly for 15 minutes.
Group 2 Give same poem to them but do not let them read loudly.

After 15 mints ask both group to recall.

Points to remember

Poem has to be new.
Same for both group.
Learning of each group must be done Separately.
Recall of each participant must happen individually
Take three trials.
Note down observation.

Post experiment :

Write down entire experiment.
Identify method used
Hypothesis
Variables
Extraneous variables
Control method
Experimental design
Discussion of result
Errors / biases

Prepare project report and powerpoint presentation on same for class discussion. 2.Complete

question & answer of chapter two .Find good examples for each question.

3.Movie analysis time : inside out. Note down your observations.prepare 1 page report on psychological observations you made.

Physical Education
RECORD PRACTICAL FILE

1. SAI KHELO INDIA TEST
2. BODY MASS INDEX (calculation of BMI)

3. FLAMINGO BALANCE TEST
4. COORDINATION TEST
5. PARTIAL CURL- UP
6. PUSH UPS FOR BOYS
7. MODIFIED PUSH UPS FOR GIRLS
8. 50m DASH OR 50m STANDING START
9. 600m RUN / WALK
10. SIT AND REACH FOR FLEXIBILITY
11. HARVARD STEP TEST
12. PROFICIENCY IN GAME AND SPORTS (skill of any one IOA recognised sports/ game of choice)
13. FIVE ASANAS FOR EACH LIFESTYLE DISEASE
14. ATHLETIC TRACK & FIELD EVENTS

History

- Project reports should be Handwritten only.
- Eco-friendly materials can be used by students.
- Students can use primary sources available in city archives (Primary sources can also include newspaper cuttings, photographs, film footage and recorded written/speeches. Secondary sources may also be used after proper authentication.)
- Every student has to compulsorily undertake any one project on the following topics

TOPICS FOR PROJECTS

1. Facets of Industrialization in the sixteenth- eighteenth centuries.
2. Crusades: causes; rationale; events; outcomes; Holy Alliance
3. Ancient History in depth: Mesopotamia
4. Greek Philosophy and City States
5. Contributions of Roman Civilization
6. The spirit of Renaissance: Manifestation in art; Literature; Sculpture; Influence on Trading Community; Social Fabric; Philosophy; Political Values; Rational Thinking; Existentialism
7. Aspects of Development -South American States /Central American States 8. Different schools of thoughts- Realism: Humanism: Romanticism
9. Piecing together the past of Genghis Khan
10. Myriad Realms of Slavery in ancient, medieval, and modern world
11. History of Aborigines – America /Australia 12.Facets of Modernization – China /Japan/Korea

Note:

Include the following in your projects:
1. Cover Page (having the details of the student and the topic as well as the Subject Teacher)
2. Acknowledgement
3. Certificate
4. Project Introduction
5. Body
6. Conclusion
7. Bibliography

*Do not forget to add pictures.

- **I. PROJECT WORK**
- **Presentation and Submission of Project File**
- At the end of the summer break, each student will submit his/her project file. Following essentials are required to be fulfilled for its preparation and submission. ●
- ❖ The total length of the project will be 25 to 30 pages.
- ❖ The project should be handwritten.
- ❖ It should be an independent, self-directed piece of study.
- ❖ The project should be presented in a folder covered with black color chart paper with title of the
- project, pictures related to the same, school logo and name.
- **The project report should be developed in the following sequence-** ● * Introduction page should include the student information and session. ● *Acknowledgements And Preface(acknowledging the institution,and the persons who have helped).
- * Certificate
- * List of contents/ Index
- * Content
- * Conclusions
- * Bibliography
-
- **Marking Scheme:**
- **File - 12 Marks**
- **Viva - 8 Marks**
- **Total - 20 Marks**

STUDENT NAME TOPIC
Shreeya PPC & Effect on PPC due to various government policies
Yashika Demand
Harshit Rawat Forms of Market
Anshika Collection and Presentation of Data
Aadit Consumers Equilibrium

Mathematics: Worksheet

1. If P = {1,3}, Q = {2,3,5}, find the number of relations from P to Q 2. If R = {(x,y): x,y $\in$ Z, x² + y² = 64}, then,

   Write R in roster form

3. Which of the following relations are functions? Give reason.

   R = { (1,1), (2,2), (3,3), (4,4), (4,5)}

   R = { (2,1), (2,2), (2,3), (2,4)}

   R = { (1,2), (2,5), (3,8), (4,10), (5,12), (6,12)}

4. If A and B are finite sets such that n(A) = 5 and n(B) = 7, then

   find the number of functions from A to B.

5. Find the domain of the real function, $f(x) = x^2 - 4$

6. 29. Find the domain of the function, $f(x) = \dfrac{-x^2 + 2x + 3}{x^2 - 5x + 6}$

7. Find the range of the following functions. (Question- 8, 9)

8. $f(x) = -\dfrac{1}{\sqrt{4 - x^2}}$

9. $f(x) = x + 2$

10. Find the domain of the relation,

R = {(x, y): x, y $\in$ Z, xy = 4}

11. Let A = {1,2,3,4}, B = {1,4,9,16,25} and R be a relation defined from A to B as,

R = {(x, y): x A, y B and y = x2}

(a) Depict this relation using arrow diagram.

(b) Find domain of R.

(c) Find range of R.

(d) Write co-domain of R.

12. If A = {2,4,6,9} B = {4,6,18,27,54} and a relation R from A to B is defined by R = {(a,b): a A, b B, a is a factor of b and a < b},

then find in Roster form. Also find its domain and range.

13. Draw the graph of the Greatest Integer function

14. If A = { 1, 3, 5, 7, 11, 13, 15, 17} B = { 2, 4, 6, 8 ... 18} and $\cup$ is universal set then find A' $\cup$ [(A $\cup$ B) $\cap$ B']

15. Let A = {1, 2, 4, 5} B = {2, 3, 5, 6} C = {4, 5, 6, 7} Verify the following identity A $\cup$ (B $\cap$ C) = (A $\cup$ B) $\cap$ (A $\cup$ C)

Which of the following are sets? Justify your answer.

16. The collection of all the months of a year beginning with letter M 17. The collection of difficult topics in Mathematics.

18. Let A = {1, 3, 5, 7, 9}. Insert the appropriate symbol or in

blank spaces: –

(i) 2 _____ A (ii) {3} _____ A (iii) {3, 5} _____ A

19. Write the set A = { x : x is an integer, –1 x < 4} in roster form 20. Write the set B = {3, 9, 27, 81} in set-builder form. 21. Which of the following are empty sets? Justify. (Question- 6, 7) i. A = { x : x N and 3 < x < 4}

Ii. = { x : x N and $x^2 = x$ }

22. Which of the following sets are finite or infinite? Justify. i. The set of all the points on the circumference of a circle. ii. B = { x : x N and x is an even prime number}

iii. Are sets A = { –2, 2}, B = { x : x Z, $x^2 – 4 = 0$} equal? Why?

Trigonometry

23. Write the radian measure of 5° 37' 30".

24. Write the degree measure of radian. [11]16

25. What is the value of sin (–1125°).

26. Find the length of an arc of a circle of radius 5cm subtending a central angle measuring 15°.