

D.A.V. PUBLIC SCHOOL, ACC JAMUL
SUMMER VACATION HOME WORK
(2025-26)
CLASS-X

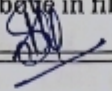
SUBJECT - ENGLISH

1. Design a special magazine on the Art and Culture of Kerala.
2. Select names of any 10 Indian poets with their pictures and their contribution to the society.
3. Write down 2 examples of each of the following devices....

Simile, Metaphor, Imagery

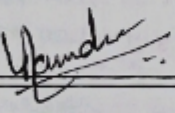
Personification, Repetition and Alliteration.

Note: Complete the above in file page.

Subject teacher: 1.  2. _____

SUBJECT - HINDI

1. किन्हीं पाँच उत्पादों (वस्तुओं का सचित्र) का रंगीन विज्ञापन बनाइए। (फाइल पेज)
2. दिए गए विषयों पर लघु कथा लिखिए।
(सबक, हमारे बुजुर्ग, सुनहरा स्वप्न, हमारा भविष्य हमारे हाथ, मित्रता)
3. 'बड़े भाईसाहब' कहानी के आधार पर किताबी ज्ञान और जिंदगी से प्राप्त अनुभव में से आप किसे अधिक महत्वपूर्ण समझते हैं। अपने विचार लिखिए।
4. 'बड़े भाईसाहब' और 'साखी' का पाठ परिचय दिए गए आधार पर कीजिए
कथानक, पात्र-परिचय, संवाद, भाषा शैली, उद्देश्य, शीर्षक
5. दिए गए विषय में अनुच्छेद लिखिए।
(जंगल की सुरक्षा, हिंदी हमारी पहचान, स्वच्छता अभियान, हमारे बुजुर्ग-हमारी धरोहर, कटते वन बढ़ता संकट, शिक्षा का अधिकार)
कला-समेकित गतिविधियाँ
6. छत्तीसगढ़ और केरल के साहित्य से जुड़े लेखक-कवियों के चित्र चिपकाकर संक्षिप्त जीवनी लिखिए। (फाइल पेज में 2-2)
छत्तीसगढ़ और केरल के महत्वपूर्ण शिक्षा-संस्थान पर सचित्र तुलनात्मक अनुच्छेद लिखिए। (फाइल पेज)

Subject teacher: 1.  2. _____

SUBJECT - SANSKRIT

1. समयलेखनम् (1 बजे से 12 बजे तक)
चार प्रकार का समय-जैसे 1:00 (एक वादनम्)
1:15 (सपाद-एक वादनम्) 1:30 (सार्ध एक वादनम्)
1:45 (पादोन द्विवादनम्)
2. स्वर सन्धि (वृद्धि, यण, अयादि तथा पूर्वरूप) सन्धि से चार चार उदाहरण। (सन्धि तथा सन्धिविच्छेद)
व्यञ्जन सन्धि (परसवर्ण, तुगागम, तथा जशत्व) सन्धि से
चार चार उदाहरण।
विसर्ग सन्धि (उत्त्व, रत्त्व, सत्त्व, शत्त्व, षत्त्व तथा विसर्ग लोप)
सन्धि से चार चार उदाहरण।
3. अव्यय पदों से वाक्यनिर्माण- (पुरा, एकदा, वृथा, इव, सर्वत्र, यदा, यथा-तथा, अधुना, श्वः, ह्यः, अद्य, एव।
4. रचनात्मक कार्यम् (पत्रपूर्ति-2, संवाद पूर्ति-2, अनुच्छेद लेखनम्-2 तथा चित्राधारित संस्कृत में वाक्यनिर्माण पांच वाक्य में)
5. प्रायोजना कार्यम् (Project work)

किन्हीं चार कवियों के सचित्र संक्षिप्त जीवन परिचय संस्कृत में लिखें।

नोट-सभी कार्य को फाइल पेज में करें।

6.Art integrated Activity

केरल से सम्बंधित पांच परिधान, पांच व्यञ्जन, पांच पर्यटनस्थलों का वर्णन संस्कृत में सचित्र फाइल पेज में करें।

Subject teacher: 1. S.K. Pandey 2. _____

SUBJECT - MATHS

TOPIC: REAL NUMBERS

Q1. Find the HCF and LCM of the following-

(a) 1288, 576 (b) 155, 1305 (c) 240, 1024

Q2. If the HCF of 210 and 55 is expressible in the form $210 \times 5 + 55y$, find y.

Q3. Find the largest number which divides 245 and 1029 leaving remainder 5 in each case.

Q4. Using prime factorization, find the HCF and LCM of 72, 126 and 168. Also show that $HCF \times LCM \neq$ product of the three numbers.

Q5. The HCF of two numbers is 145 and their LCM is 2175. If one number is 725, find the other.

Q6. The product of two numbers is 20736 and their HCF is 54, find their LCM.

Q7. After how many places of decimals, the decimal expansion of the rational number $1/17$ will terminate?

Q8. State the fundamental theorem of Arithmetic.

Q9. Express each of the following as the product of primes.

(a) 6435 (b) 8085 (c) 2184

Q10. Prove that $5 + 2\sqrt{3}$ is an irrational number.

Topic: Polynomials

Q1. If $(x + k)$ is a factor of $2x^2 + 2kx + 5x + 10$, find k.

Q2. If α and β are the zeroes of the polynomial $p(x) = 3x^2 - 5x + 6$,

Find (i) $\alpha/\beta + \beta/\alpha$ (ii) $\alpha^3 + \beta^3$

Q3. Find the quadratic polynomial whose sum and product of zeroes are 4, 1 respectively.

Q4. Find a polynomial whose zeros are squares of the zeroes of the polynomial $3x^2 + 6x - 9$.

Q5. Find the quadratic polynomial, sum and product of whose zeroes are 2 and -1 respectively.

Q6. If the sum of the zeroes of the quadratic polynomial $kx^2 + 2x + 3k$ is equal to their product, find k.

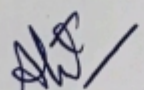
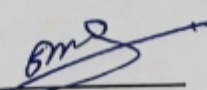
Q7. Find the polynomial whose zeroes are reciprocals of the zeroes of the polynomial $2x^2 + 3x - 6$.

Q8. Find the ratio of the sum and product of the zeroes of the polynomial $5x^2 + 2x - 10$.

Q9. Complete chapter 1st and chapter 2nd.

Q10. Revise chapter 1st and chapter 2nd.

ACTIVITY:- 1) Prepare a project report on " DEMOGRAPHICS OF KERALA AND CHHATTISGARH" use data according to census-2011 in a project file.

Subject teacher: 1.  2. 

SUBJECT - SCIENCE

PHYSICS

Describe an activity to show that the outer curved surface of the spoon acts as a convex mirror.

- (i) Take a large shining spoon and look at the outer curved surface of the spoon, when the spoon is closer to your face. It will be observed that an erect and smaller image of your face is formed.
- (ii) Now, move the spoon slowly away from your face. It will be observed that the nature of the image remains the same.

This activity shows that the outer curved surface of the spoon acts as a convex mirror.

Note:- Make a video presentation of the above activity.

CHEMISTRY

1. Balance any ten chemical equations given in the chapter 1
2. Explain activity no 1.1 to 1.5 on following heads:
 - a) Aim
 - b) Diagram
 - c) Explanation
 - d) Conclusion
3. Project on Natural acid - base indicators (activity no- 2.2)

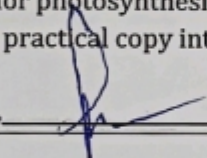
BIOLOGY


Activity (Practical based)

Prove that:

1. Green plants prepare their own food.
2. Chlorophyll is essential for photosynthesis.
3. Carbon Dioxide is essential for photosynthesis.
4. Light is essential for photosynthesis.


(Prepare in science practical copy interleave A4 size.)

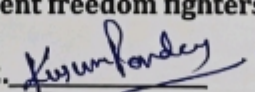
Subject teacher: 1. 

2. 

SUBJECT - SOCIAL

- (i) Learn the taught portions.
- (ii) On an A4 size political map of India, locate all the states and union territories with the help of pencil and paste in file page.
- (iii) Write the name of all the countries and their capitals in file page.
- (iv) On an A4 size political world map, locate the countries having holding together federation and Coming together federation. (Paste in a file page.)
- (v) Make a project file on the topic ,Sustainable Development.
- (vi) Create a collage representing the prominent freedom fighters of Kerala and Chhattisgarh.

Subject teacher: 1. 

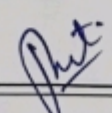
2. 

SUBJECT - AI

PRACTICAL ASSIGNMENT:

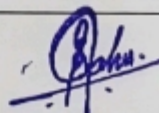
AI Project Development Using (* relate it to Sustainable Development Goals) (ANY -1)

1. Statistical Data for AI: Prediction of palmer penguin species
2. Computer Vision: Early detection of coral bleaching
3. Natural Language Processing: Sentiment Analysis

Subject teacher: 1. 

2. _____

CLASS TEACHER


PRINCIPAL