

DAV PUBLIC SCHOOL BISTUPUR, JAMSHEDPUR JHARKHAND ZONE – E

CLASS IX 2024-25

HOLIDAY HOMEWORK

Holiday Homework: A Time for Reflection and Exploration!

Dear Students of Class IX,

As we embark on our summer break, we hope you're excited for some well-deserved relaxation and fun! However, we also want to keep your minds engaged and curious during this time. That's why we've put together a holiday homework package that's both enjoyable and thought-provoking.

Over the next few weeks, we encourage you to explore your creativity, reflect on your experiences, and learn new things. The activities and prompts in this package are designed to help you do just that. From writing and art to research and personal growth, there's something for everyone.

Remember, holiday homework is not meant to be a burden, but an opportunity to explore your interests and passions. Take your time, be creative, and have fun!

We look forward to seeing your amazing work when we return to school.

Happy holidays and happy learning!

Best regards,

(Teachers of Class IX)

ENGLISH

1. Write an Article with reference to chapter How I Taught My Grandmother to Read on the importance of 'Adult Literacy'
2. Verb Forms and Determiners worksheets from English Practice Book.
3. With reference to the Topic 'An Exemplary Leader' , who do you think is an Example of this quote from the present leaders of the world? Write a Short Biography of the respected individual in not more than 300 words with suggestive photography.

ग्रीष्मावकाश गृहकार्य -२०२४-२५

कक्षा- नौवीं

विषय -हिंदी

भक्ति काल के पांच कवियों का सचित्र जीवन परिचय, कार्य क्षेत्र तथा उनकी प्रमुख रचनाओं का उल्लेख करते हुए कम से कम प्रत्येक की एक-एक रचना (पद) सुंदर अक्षरों में लिखकर आकर्षक परियोजना कार्य तैयार करें।

नोट - परियोजना कार्य सुंदर धागे वाले फाइल में तैयार किए गए ही स्वीकार्य होंगे।

कक्षा - नवमी – संस्कृतम् - २०२४-२५

ग्रीष्मावकाश:गृहकार्यम्

(१)शेमुषी: पाठ: - १,२,३ अभ्यास: करणीयम् । (२) वणानां उच्चारण स्थानां अभ्यास: च । (३)स्वरसन्धि: -दीर्घा सांन्धि:, गुणसन्धि:, यणसांन्धि:, अयादद: सांन्धि: लेखनीयम् अभ्यास: च ।

(४)द्वञ्जनसन्धि: > वगीयप्रथमवणास्य तृतीयवणेपररवतानम्"म्" स्थाने अनुस्वार:।

(५) ववसगयसन्धि: - उत्त्वम्, सत्वम् (प्रयोग) व्यवहारां च ।

(६)शब्दरूपाणि -बालक, बाललका, लता, सि, मुनन, पपत, ृमात, ृमनत, िनु, नदी, भवत्, जगत्, फल, तत्, एतत्, अस्मद्, युष्मद् लेखनीयम् अभ्यास: च ।

(७)ितुरूपाणि - पठ्, गम्, ्वद्, भू, नी, दृश, ्अस, ्कृ, पा, हस, ्स्था, रक्ष्, ज्ञा, श्रु, स्मृ, सेव, ्लभ्

(८)संख्ा -१०० पयाधतम् मननम् पठनम् च ।

(९) उपसगाय:- २२ पयाधतम् मननम् पठनम् च ।

(१०)अद्र्म् -अभ्यासम् च ।

HOLIDAY HOMEWORK(BIOLOGY - IX) 2024-25

Prepare potato osmometer to show the process of osmosis.

Click the pictures and paste in biology notebook

1. Initial stage
2. Final stage

Explain in brief the process.

(Materials used, time taken)

HISTORY & POLITICAL SCIENCE ASSIGNMENTS

HISTORY

FRENCH REVOLUTION

- Q1. In which battle was Napoleon defeated and when? (1)
- Q2. What was guillotine? (1)
- Q3. Who was the Leader of the Jacobin club? (1)
- Q4. Name the national anthem of France. (1)
- Q5. Mention the Role of philosophers in the French Revolution. [3]
- Q6. Discuss any three severe equality measures introduced in France during the Reign of Terror [3]
- Q7. Describe the circumstances/ events which led to the Tennis Court Oath. [3]
- Q8. What do you understand by the term subsistence crisis? How it led to in France. [1+2]
- Q9. What were the main causes of the French Revolution. [5]
- Q10. How did the French Revolution affect the everyday life of the people in France? [5]

xii) $5\sqrt{5}\sqrt{5}x^2 + 30x + 8\sqrt{5}\sqrt{5}$

D) Using factor theorem, factorise the polynomial

i) $x^3 + x^2 - 4x - 4$

ii) $y^3 - 7y + 6$

iii) $2x^3 - 5x^2 - 19x + 42$

iv) $3z^3 - 4z^2 - 12z + 16$

v) $x^3 - 6x^2 + 11x - 6$

E) Revise number systems and polynomials

Instruction – Question No A do in Lab Manual , Question No. C & D do in maths copy and project B in folder.

HOLIDAY HOMEWORK (PHYSICS -IX) 2024-25

Q1. Explain how can an object be accelerated if it is moving with constant speed ? Justify your answer with an example.

Q2. What is the numerical ratio of average velocity to average speed of an object when it is moving along a straight path ?

Q3. Can an object exist in a state of absolute rest ? Explain with example.

Q4. What is the use of velocity-time graph for an object moving with uniform velocity ?

Q5. An airbus runs on a runway from the rest. Its final velocity is 810 km/h. The length of the runway is 1000 m. Calculate the uniform acceleration of the airbus.

HOLIDAY HOMEWORK(CHEMISTRY - IX) 2024-25

1. What is evaporation

2. Write down the factors on which rate of evaporation depends .

Also mention how they are related with evaporation

3. Give example from daily life how we use the above factors to increase rate of evaporation

Take pictures of daily life examples(two examples from each factor)and paste it with suitable factor

For example Temperature is one of the factor on which rate of evaporation depends

Example from daily life

We dry grains by keeping them in sun

Take a picture and paste

A) Activity / Project

- 1) To construct a square root spiral
- 2) To represent some irrational numbers on the number line
- 3) To verify the algebraic identity

$$(a+b+c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$$
- 4) To verify experimentally that if two lines intersect each other, then
 - (i) the vertically opposite angles are equal
 - (ii) the sum of two adjacent angles is 180°
 - (iii) the sum of all the four angles is 360°
- 5) To verify experimentally the different criteria for congruency of triangles using triangle cut outs.

PROJECT :- Indian mathematicians and their contributions

B) Type of Numbers ART Integrated Activity

https://youtu.be/A4zDec4KnlQ?si=YHfx0D4ZA-W_RQUj

C) Factorise the following using suitable identities

- i) $x^2 - y^2 - 2x + 1$
- ii) $9a^2 - 4b^2 - 6a + 1$
- iii) $a^4 - 16b^4$
- iv) $a^3 - 8b^3 + 1 + 6ab$
- v) $(a + b)^3 - (a - b)^3$
- vi) $(9x - \frac{1}{5} \frac{1}{5})^2 - (x + \frac{1}{3} \frac{1}{3})^2$
- vii) $x^8 - y^8$
- viii) $3x^2 + 4y^2 + 25z^2 - 4\sqrt{3}\sqrt{3}xy - 20yz + 10\sqrt{3}\sqrt{3}zx$
- ix) $125x^3 - 343y^3$
- x) $(5r - \frac{2}{3} \frac{2}{3})^2 - (2r - \frac{1}{3} \frac{1}{3})^2$
- xi) $\frac{r^2}{8} \frac{r^2}{8} - \frac{s^2}{343} \frac{s^2}{343} - \frac{t^2}{216} \frac{t^2}{216} - \frac{1}{28} \frac{1}{28}$ rst

-C.Do's and don'ts

D.Prevention and mitigation measures

E.Latest means of forecasting Disasters

F.Prepare a case study on any one of the Disasters that you have chosen to research.

General Instructions:

1. The project should be hand written.
2. It should be well presented, researched, and pictorial.
3. Cover page, table of contents, acknowledgements, bibliography, headings and sub – headings are a must.
4. Each section should be done on white/colored A4 size sheets.
5. The project should be presented in a file or get your project spiral bound.
6. The project should not exceed 15 pages.

HOLIDAY HOMEWORK (ECONOMICS - IX

)2024-25

Make a chart showing the different factors of production.

Artificial intelligence Holiday home work

Make a presentation of 5-6 slides on Domains of AI.

Note : pictures and application related to each domain should be included.

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POLITICAL SCIENCE

WHAT IS DEMOCRACY? WHY DEMOCRACY?

- Q1. What is the name of the Chinese Parliament? (1)
- Q2. State one Asian country where women do not have right to vote. [1]
- Q3. During which period did China record its worst famines in the World's history?[1]
- Q4. State the drawback in the electoral system of Fiji? (1)
- Q5. Mention three instances of denial of equal right to vote. (3)
- Q6. What is representative democracy? Why it is necessary? (1+2)
- Q7. Explain the main features of non-democratic government with example from Pakistan and China. (3)
- Q8. Describe broader meaning of democracy (3)
- Q9. Give five arguments against democracy. (5)
- Q10. Give five arguments in favour of democracy. (5)

HOLIDAY HOMEWORK (GEOGRAPHY - IX

)2024-25

1. Prepare a handwritten project on DISASTER MANAGEMENT. You can choose any one Disaster of your choice and complete it under the following heads.
- A. Definition of 'Disaster'.
 - B. What is a disaster management cycle?
 - C. What are the types of Disasters?
 - D. What is vulnerability and risk?
 - E. What is a Hazard? How is it classified?
 - F. Differentiate between hazard and disaster.
2. Based on your selection enumerate the following in your project.
- A. Meaning
 - B. Causes