

INDIA INTERNATIONAL PUBLIC SCHOOL
HOLIDAY HOMEWORK (2024-25)
CLASS – IX

SUBJECT – ENGLISH

General instructions –

Attempt all the questions and do them neatly .

Q-1 - PROJECT:

• Make an Art integrated project on Bihar/ Madhya Pradesh describe the culture, tradition, customs, language, dress, festivals, food etc. In a file with the help of pictures.

Q-2 -

Reading skills –

1. Read the chapters 1 to 2 from Supplementary and Reader and write the answers for the questions followed by in the class work copy.
2. Read the Newspaper daily and write only one news article under the given headings like National, International, Sports, Glamour, Business and express your views on it.

Writing skills –

3. Computers are a storehouse of knowledge and wisdom and they are hazardous too. Write an article on the topic 'The benefits and harms of computers'. Word limit is 180-200 words.
4. You encountered two strange people. They were different from normal human beings but they were quite interesting and exciting. As Manish Manisha, using your ideas, write a story in about 150-200 words narrating your experience with them.
5. Write a letter to the chairman, Water Authority, in upto 120- 150 words, on the problems related to scarcity of water. Also suggest a few effective remedies.

Thinking skills –

6. Write a self composed poetry on the given topics with minimum 4 stanzas.
 - a. Music
 - b. I am blessed
 - c. My school my pride .

Dictionary task –

7. Refer the dictionary and write the full forms of all the abbreviations used in the dictionary.
E.g. Fem-feminine, prep-prepositions.

Q-3 – Revise the syllabus covered till the date.

SUBJECT - MATHS

- Solve all the questions neatly in step-by-step manner in the fair notebook.

QUESTIONS

1. Which of the following is irrational?

- (a) $\sqrt{4/9}$ (b) $\sqrt{12}/\sqrt{3}$ (c) $\sqrt{7}$ (d) $\sqrt{81}$

2. Simplify $\{2^{n+4} - 2(2^n)\} / \{2(2^{n+3})\}$

3. Find the value of $4\sqrt{3}\sqrt{2^2}$

- (a) $2^{-1/6}$ (b) 2^{-6} (c) $2^{1/6}$ (d) 2^6

4. Evaluate $6/(\sqrt{12} - \sqrt{3})$

5. Simplify the expression $(4\sqrt{5} - 3\sqrt{2})(3\sqrt{5} + 5\sqrt{2})$

6. Show that $1/(1+x^{a-b}) + 1/(1+x^{b-a}) = 1$

7. Simplify $\{1/(\sqrt{5} + \sqrt{3})\} + \frac{1}{2}(\sqrt{5} - \sqrt{3})$

8. Simplify $\sqrt{(a^3b^4)} \cdot \sqrt[3]{(a^4b^3)}$

9. If $(5)^{x-3} \times (3)^{2x-8} = 225$, then find the value of x.

10. Express $32.12\overline{35}$ in the form of p/q.

11. Find the sum of $2.\overline{3}$ and $4.\overline{15}$

12. Determine the degree of each of the following polynomial

- (i) $3x-2$ (ii) -20 (iii) $x^3(2-x^3)$

13. Write whether the following statements are true or false

- (i) A binomial can have at most two terms
(ii) Every polynomial is a binomial
(iii) A binomial may have degree six
(iv) Zero of a polynomial is always 1

(v) A polynomial cannot have more than two zeroes.

14. Democracy has given people a powerful right i.e., to VOTE. In India every citizen over 18 years of age has the right to vote. Instead of enjoying it as a holiday, one must vote if he/she truly wants to contribute to the nation building process and bring about a change. A survey was done in a small area in which $\sqrt{9+2x} - \sqrt{2x}$ voters were men and $5/\{\sqrt{9+2x}\}$ voters were women.

Answer the following:

(i) Which mathematical concept is used here?

(a) Number system (b) Circle (c) Area (d) Statistics

(ii) $7^{1/5} / 7^{1/3} =$ _____

(iii) Find x, if number of men is equal to number of women.

15. In a school 5 out of every 7 children participated in 'save wild life' campaign organized by the school authorities.

(i) What is the value of $5/7$?

(ii) How many rational numbers are there between 5 and 7?

(iii) What kind of decimal expansion does $5/7$ has?

16 Rationalise the denominator of each of the following.

(i) $\frac{4}{\sqrt{11}-\sqrt{7}}$

(ii) $\frac{1+\sqrt{2}}{2-\sqrt{2}}$

(iii) $\frac{3-2\sqrt{2}}{3+2\sqrt{2}}$

17 Simplify by rationalizing the denominator

(i) $\frac{7\sqrt{3}-\sqrt{2}}{\sqrt{48}+\sqrt{18}}$

(ii) $\frac{2\sqrt{6}-\sqrt{5}}{3\sqrt{5}-2\sqrt{6}}$

(iii) $\frac{\sqrt{5}+\sqrt{2}}{\sqrt{5}-\sqrt{2}}$

(iv) $\frac{1+2\sqrt{3}}{2-\sqrt{3}}$

Art Integrated Project:-

1. Take any three temple from Bihar and Madhya Pradesh and observe thoroughly their work that how mathematics is used in their construction. Prepare a project file on it.

2. It is said that Sanskrit and Mathematics go hand in hand. The ancient language naturally connects to mathematics and other Indian languages.

What is your opinion on this? Do research on " what is the role of Sanskrit in mathematics?" and prepare the project file (at max. 3-4 Pages) for the same with a beautiful cover.

SUBJECT - HINDI

1. जो भी कक्षा में आपको पढ़ाया गया है। वह पाठ्यक्रम आप याद कर व लिखकर याद करें।
2. आप रामायण के 30 दोहे याद करके एक सीट पर लिखें।
3. आप और आपका दोस्त का भविष्य में क्या लक्ष्य है इस संवाद को लिखकर एक फाइल तैयार करें।
4. सबसे प्रिय खेल पर एक अनुच्छेद तैयार करें।
5. आप दो स्वरचित कथाएँ लिखें तथा फाइल तैयार करें।

आर्ट इन्ट्रीग्रेड प्रोजेक्ट

आप विहार या मध्यप्रदेश पर वहाँ की प्रत्येक जानकारी को आप चित्र सहित (कलर) फाइल तैयार कीजिए (30 पेज)

SUBJECT - SCIENCE

1.SUBJECT ACTIVITY;-

- Make a power point presentation on any one given topic.
- Ppt should be in 12 -15 slides.
- It should be informative, innovative.
- Ppt must have interesting facts with pictures.

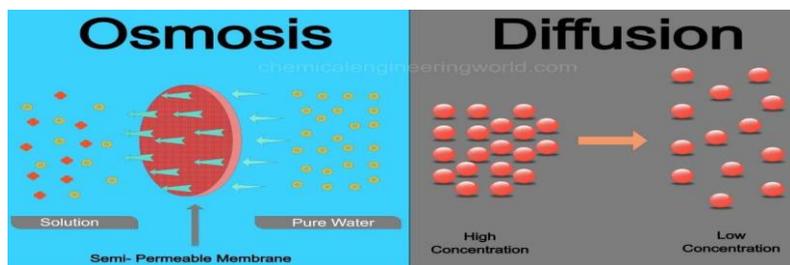
Topic ;- Osmosis

Plant cell and animal cell

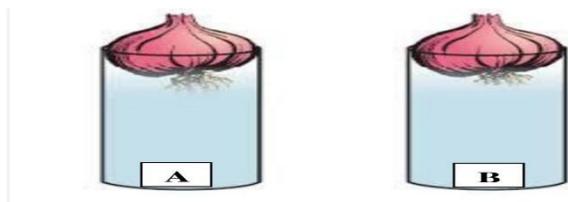
States of matter

Types of motion

CHEMISTRY- Activity to study diffusion and osmosis in our day to day life and Diffusion change with respect to temperature.



BIOLOGY-An activity to observe growth of roots of two onion bulb as shown in activity 6.1 of chapter 6 Tissue



Write on the steps of procedure and observation in subject notebook with result and its concepts

2.PORTFOLIO ACTIVITY- Read a newspaper and collect pictures and information's regarding recent development in field of Science (any five) and paste them into a4 size papers.

3ART AND INTEGRATED PROJECT-

Prepare a decorative project file with interesting facts and images. (ON BIHAR)

For reference-<https://www.instagram.com/ps.creation...>

1. ECOCLUB ACTIVITY;-



VectorStock®

VectorStock.com/37717555

The Impact of harmful radiations on human nerves system by excessive use of mobile.

This is to raise awareness among the people about to protect our mental health by being physically active, reduce use of mobile, reducing air pollution and doing meditation.

Task-1

'ANXITEY diseases impose an immense Worldwide Health Burden".

2. Find out the five most common neural diseases which are the causes of

Severe illness and mental disorder worldwide. Paste pictures and give the necessary information as given below:

- **Types of mental disorder disease (Name)**
- **Scope of the disease**
- **Prevention Treatment Control and Elimination**

3. Source of Information for the Topic: It can be a Newspaper clipping, an article from a magazine or an Internet.

7. You have to write the reference of source of information you will use for your holiday homework.

Task-2

Draw and design a catchy caption for WORLD MENTAL HEALTH DAY.

Click a picture of it and paste it at the bottom of your Holiday Homework.

SUBJECT - SOCIAL SCIENCE

Geography

1. Write 50 MCQ from chapter 1 : India - size and location of your geography book in your fair notebook
2. Learn all the question answers written in your fair notebook.

Civics

1. Write 30 MCQs from chapter 1: Why Democracy? What is Democracy? in your fair notebook.
2. Revise the chapter for your Pre mid-term examination.

Economics

1. Write 30 MCQs from chapter 1: A village called Palampur in your fair notebook.
2. Revise the chapter for pre midterm examination.

ART INTEGRATED PROJECT (MULTI DISCIPLINARY PROJECT)

History projects

1. Make a detailed project on

Topic 1 - Evolution and the significance of political symbols associated with the French revolution.

- a. Explain the need for symbols during the French revolution along with pictures
- b. Impact of these symbols on common people
- c. Evolution of the song Marseille over a period of time.

Topic 2 –Make a beautiful project on popular heritage places and monuments of the states of Bihar and Madhya Pradesh.

Economics project

1. Make a beautiful project work on the topic green revolution.
2. Also may a comparison between traditional farming and modern farming in rural India.

Civics project

1. Make a project on the features of democracy
 - a. Explain the features of democracy with appropriate pictures of these features.

b. On the world map shade the countries that became democratic between 1900-1970

1970-1980

1980-2000

Note :- Use different colours for shading

E.g. 1900-1970 (red)

1970-1980 (yellow)

1980-2000((green)

Also mention the names of the countries given above.

Geography project

1. Write the names of the states of India arranged according to their area. Also mention the capital of each state.
2. On the political map of India, mark the states of India with different colours and paste it in your fair notebook.
3. Prepare a detailed project on Bihar covering the following topics :-
 - a. Culture of Bihar
 - b. Dance form
 - c. Food items
 - d. Forms of painting

Note

1. All the written work must be done in A4 size paper and submitted in a cover file.
2. Make your projects interesting and attractive by adding diagrams charts and colourful images.
3. It is mandatory for all the students to complete the holiday homework.

• SUBJECT - COMPUTER

• Que1. Techno Green

- What to do : Create a presentation in MS-Power Point on the topic – “**Sustainable DevelopmentGoal – Zero Hunger**”. Presentation should have 8-10 slides.
- Mail the activity on the email ID : @gmail.com Subject of the mail should be : your name Class (e.g Riya Verma 9)
- Parameters : Creativity , originality, Overall presentation

Que 2. Practice questions of Unit 1 - Communication Skills (Part - A)

SHORT ANSWER TYPE QUESTIONS

1. What is Effective communication?
2. What do you understand by the phrase 'Barriers to Effective communication'?
3. Define Non-verbal communication. List the main elements of Non-verbal communication.
4. Define Verbal communication. What are the two forms of Verbal communication?
5. Enlist the factors affecting perspective in communication?

LONG ANSWER TYPE QUESTIONS

1. State the importance of effective communication.
2. What is Encoding? What is its significance in the communication cycle?
3. What do you understand by written communication?
4. Discuss the role of non-verbal elements in effective communication.
5. Comment on the statement, 'Our beliefs form a vicious cycle'. Support your answer with an example

Que 3 . Practice questions of Unit 1 - Introduction to IT and ITeS Industry (Part -A)

SHORT ANSWER TYPE QUESTIONS

1. Define ITES.
2. What is the structure of an IT-BPM industry?
3. Give an example of the use of IT in the following areas:

Service
management

Online Banking
Hospital management system

E-learning Library

4. What do you understand by LMS?
5. Briefly describe the impact of IT in your everyday life.

LONG ANSWER TYPE QUESTIONS

1. What do you understand by the working of a call centre?
2. What is the basic requirement of IT enabled services?
3. How is IT beneficial in the insurance sector? Mention any three factors.
4. Mention the role of E-commerce in your life.
5. Mention various features of E-banking.
6. Discuss the use of information technology in the field of science and engineering.