

THE ASIAN SCHOOL, DEHRADUN
HOLIDAY HOMEWORK- SUMMER VACATION 2023 FOR CLASS X

English:

INSTRUCTIONS FOR COMPILATION OF HOLIDAY HOMEWORK .:

I. Update your CW notebook. Complete all your pending Class Work / HW Q/A, Word Meanings etc.

II. **Do all the following, questions in English Home-Work Notebook.**

Holiday Homework is to be submitted for correction on the day the school reopens after vacation. A copy of this assignment page should be pasted in the Holiday Home-work notebook.

FOOTPRINTS WITHOUT FEET. (Supplementary Reader)

Read the stories mentioned below and Write the Central theme, Message, Value points of each lesson & answer the questions given below (In 40-50 words) :-

CH .3. The Midnight Visitor

1. What made the story of the balcony so convincing?
2. How did Max go out of Ausable's room to save himself from the police?
3. How did Ausable kill Max without using a weapon?
4. How and why did Max come inside Ausable's room?
5. How was Ausable different from the other secret agents?

CH .4.A Question of Trust.

- 1.What did Horace Danby hear from the doorway?
- 2.How did the lady in red convince Horace Danby to open the lock?
- 3.Was Horace Danby a typical thief?
- 4.What advice did the lady give Horace Danby about his. hay fever?
- 5.Why did Horace Danby feel sure of his success in that year's robbery?

CH-5 Footprints without Feet

- 1.Why were the two boys in London surprised and fascinated?
- 2.What did Griffin do inside the store?.
- 3.What was the "curious episode" that took place in the clergyman's study?
- 4.The landlord's wife was convinced that Griffin was an "eccentric scientist". What made her think of Griffin in these terms?.
- 5.How do you assess Griffin as a scientist?

CH-6.The Making of a Scientist

- 1.Why did viceroy butterflies copy monarchs?
- 2.Why did Richard Ebright give up tagging butterflies?
- 3.What are the ingredients in the making of a scientist?
- 4."But there was one thing I could do-collect things". What collection did Ebright make? When did he start making collection?
- 5.How did Richard Ebright's mother help him to become a scientist?

CH-7. The Necklace

- 1.How did the Loisels react when they realised that the necklace had been lost?
- 2.What had Matilda's husband saved the money for? Why did he then part with his savings?
- 3.What was the cause of Matilda's ruin? How could she have avoided it?
- 4.What did Mme. Forestier tell Matilda about the reality of her Necklace?
- 5.What changes came into the life of Loisels after the necklace was lost?

III. Write the following letters :

1. You are the Dean of Activity of Adarsh Public School, Nagal, Punjab. You organised a trip to Nainital for the students of Class X of your school for five days where you had some bad experiences because of improper arrangements. Write a letter to the Director of Mount Travels and Tourism, Nagal, Punjab, complaining about the same. Sign yourself as Anita Chaudhary. (100-120 words)
2. Write a letter in 100-120 words to the Editor of The Times of India, Delhi, expressing your concerns about the urgent need to save our rivers. Suggest some ways to improve the situation. Sign yourself as Karan/ Neha Bajaj.
3. You are Akriti, of Friends Colony Noida. Every day you are late to school by fifteen minutes as your school bus is stuck in a traffic jam the Chintpurni Temple crossing. Write a letter to the editor of a newspaper in about 100-120 words highlighting this problem and suggesting some remedy for it.
4. You are Amit/ Amita of 47, COD colony, Jaipur. You happened to take part in a medical camp organised in a remote village near Delhi. You are surprised to find that most of the people there have no awareness of basic health and hygiene. As a concerned citizen, you decide to take up their cause and organise camps to make the villagers aware of the importance of hygiene. Write

a letter to the editor of a newspaper, in about 100-120 words, expressing your concern and encouraging youngsters to take part in such campaigns.

5. You are Rajeshwari/ Rajesh, President, RWA, Govindpuri, Bengaluru. The main park in your locality, which was once a model park, lies in a state of utter neglect. It has become a favourite spot for anti-social elements and also a permanent resting place for stray animals. Write a letter to the Municipal Commissioner requesting him to instruct the horticulture department to take prompt action and restore the part of its original condition.

IV. Prepare (write in about 100 words) any FIVE out of the following topics for ASL:

1. Importance of Values and Ethics
2. Role of Media
3. Virtual is the New Real
4. My Friend Is My Lifeline
5. Lessons to be learnt from great personalities
6. Role of youth in improving the environment
7. Importance of regulating the use of social media
8. Importance of yoga in the life of students
9. Victory (success) requires determination and hard work
10. Need to save guard our culture and regaining our lost heritage

Hindi: परियोजनाकार्य विषय—

- 1—भारत में ऋतु का क्रम एवं महत्त्व दर्शाते हुए बाल गोबिन भगत के कार्तिक माह की विशेषताओं को सचित्र आकर्षक परियोजना द्वारा दर्शाए।
- 2—रामलक्ष्मण परशुराम संवाद के आधार पर कहा जा सकता है कि जीवन जगत की व्यापक अनुभूति और मार्मिक प्रसंगों की अचूक समझ तुलसीदास को महाकवि बनाती है—कथन के आधार पर तुलसीदास की काव्यगत एवं शिल्पगत विशेषताओं को चित्रात्मक परियोजना द्वारा दर्शाए।
- 3—वाच्य और रचना के आधार पर वाक्य विषय पर सचित्र परियोजना बनाइए।
- 4—औपचारिक पत्र के प्रकार पर एक परियोजना तैयार कीजिए।

निर्देश—

परियोजना का —

प्रथमपृष्ठ—विद्यार्थी का नाम, कक्षा अनुक्रमांक, विद्यालय का नाम

द्वितीयापृष्ठ—आभारज्ञापन

तृतीयापृष्ठ—प्रमाणपत्र

चतुर्थपृष्ठ—अनुक्रमाणिका

पंचमपृष्ठ—प्रस्तावना

षष्ठम् पृष्ठ—सम्पूर्णचित्राकर्षकपरियोजना

अन्तिमपृष्ठ—संदर्भग्रन्थ

निर्देश—सम्पूर्णकार्यआन्तरिकमूल्यांकन के अन्तर्गतजाँचाजायेगा।

Mathematics

(A):- THE STUDENTS HAVE TO PREPARE A PORTFOLIO/ PROJECT, FOR THE INTERNAL ASSESSMENTS IN MATHEMATICS, AS PER THE GUIDELINES ISSUED BY CBSE.

GUIDELINES FOR THE PORTFOLIO/ PROJECT FOR MATHEMATICS

TOPIC FOR THE PORTFOLIO :

HISTORY OF “QUADRATIC EQUATIONS” AND ITS APPLICATION IN REAL LIFE.

KEY-POINTS ABOUT THE TOPIC . (USE IN POINT-B , UNDER THE HEADING INSTRUCTIONS) ***

- MEANING OF THE WORD EQUATION (HISTORY)
- GEOMETRIC APPROACH OF QUADRATIC EQUATIONS.
- CONTRIBUTION OF THE INDIAN MATHEMATICIAN BRAHMAGUPTA IN QUADRATIC EQUATIONS.
- INTERESTING REAL LIFE MATHEMATICAL EXAMPLES IN QUADRATIC EQUATIONS.
- APPLICATION OF THE QUADRATIC FORMULAE.
- NOTE ON USES AND APPLICATION OF QUADRATIC CURVES IN REAL LIFE (e.g. ARCHITECTURE , PHYSICS , CONSTRUCTION , ENGINEERING, SPORTS, NAVIGATION) *** (FOR STUDENTS HELP)

INSTRUCTIONS:

WHAT SHOULD BE INCLUDED IN THE PORTFOLIO .

(A). COVER PAGE IN THE FORMAT GIVEN BELOW.

WELCOME TO MY PORTFOLIO

NAME:

CLASS AND SECTION.....

NAME OF SCHOOL.....

SCHOOL ADDRESS.....

NAME OF SUBJECT TEACHER.....

SESSION.....

SUBJECT: MATHEMATICS

FINISH THE FOLLOWING SENTENCES:-

GOAL SHEET:

PHOTO

- MY STRENGTH IN MATH INCLUDE:
- MY WEAKNESSES IN MATH INCLUDE:
- THE AREAS IN WHICH I HAVE IMPROVED IN MATHS ARE :
.....
.....
.....
.....

(B). NOTE ON WHAT YOU HAVE LEARNT .

C). PORTFOLIO REFLECTION

- 1). DATE OF START.....
- 2). DATE OF COMPLETION.....
- 3). AREAS OF IMPROVEMENT IN PORTFOLIO.....

(D). SELF ASSESSMENT QUESTIONS IN THE PORTFOLIO RELEVANT TO THE TOPIC (MIN. 5 QUESTIONS)

(E). TEACHERS COMMENTS (TO BE DONE BY THE TEACHER).

NAME OF STUDENT.....

TEACHERS SIGNATURE.....

* NOTE:

- MAKE A CREATIVE PORTFOLIO.
- USE PROJECT SHEETS. (MINIMUM 8 SHEETS)
- USE GRAPH SHEETS IF REQUIRED
- COLOR PEN AND PENCIL CAN BE USED
- STICK FILE TO BE USED FOR THE PORTFOLIO

(B):- THE STUDENTS HAVE TO PREPARE MATHS ACTIVITY FILE , FOR THE INTERNAL ASSESSMENTS IN MATHEMATICS, AS PER THE GUIDELINES ISSUED BY CBSE.

GUIDELINES AND INSTRUCTIONS FOR PREPARING THE ACTIVITY FILE:

- The activities should be done in a loose ruled project sheets and fixed in a stick file.
- It should contain the following in the order
 - INDEX
 - ACKNOWLEDGEMENT
 - The figures should be drawn with pencil.
 - The headings should be written in black in and the content in blue ink.
 - Use the graph sheets wherever required.

- Color pencil and pen can be used.
- Mention NAME OF THE SCHOOL, your NAME, CLASS AND SECTION, SUBJECT and SESSION in the activity file.
- Prepare a neat and clean creative activity file.

NOTE: THE PDF OF THE ACTIVITIES TO BE COMPLETED WILL BE SHARED IN THE CLASS WHATASPP GROUPS BY THE SUBJECT TEACHER.

THE HOLIDAY HOMEWORK HAS TO BE SUBMITTED AFTER THE SUMMER VACATIONS.

(C):- SOLVE THE QUESTION PAPER OF THE UT-1 EXAMS IN THE MATHS HOMEWORK NOTEBOOKS.

SCIENCE

PORTFOLIO: Prepare a Portfolio on any one concept of Chapter-16 "Sustainable Management of Natural Resources" from Science NCERT book.

Topics for the Science Portfolio are mentioned below. Students can select any one topic out of the following.

- 1) Pollution of Ganga river and Ganga Action Plan
- 2) Sustainable Management of our Natural Resources
- 3) Conservation and Judicious Use of Natural Resources
- 4) Forest and Wild life
- 5) Management of Coal and Petroleum
- 6) Examples of People's Participation for the Conservation of Forests
- 7) Big Dams: Advantages and Limitations
- 8) Water harvesting
- 9) Watershed Management
- 10) Sustainability of Natural Resources.

Instructions:

- (i) The portfolio should be neatly handwritten in A-4 size Project sheets.
- (ii) All the pages should have borders.
- (iii) The portfolio should be of 8-10 pages.
- (iv) The portfolio should have a Cover page showing Title of the portfolio, Subject, Student's Name and Class, Father's Name, Mother's Name, Name of school and Academic Session.
- (v) Credit will be awarded to the original drawings, illustrations and creative use of materials.
- (vi) All pictures should be labelled and acknowledged.
- (vii) Check the relevant web sites and books for preparing the portfolio.

Physics :

Instructions :

i) All the questions are to be done in Physics Homework Notebook.

ii) Work should be neat and presentable.

- Q1. What is meant by electric current? Name and define its SI unit. In a conductor, electrons are flowing from B to A. What is the direction of conventional current? Give justification for your answer. A steady current of 1A flows through a conductor. Calculate the number of electrons that flow through any section of the conductors for 1 second. (Charge on electron = $1.602 \times 10^{-19} \text{ C}$)
- Q2. The resistance of a wire of 0.01 cm radius of 5Ω . If resistivity of the material of wire is $50 \times 10^{-8} \text{ ohm}$. Find the length of the wire then.
- Q3. a) Define power what is SI unit of power?
b) How and on what factors the heat product in the conductor depends.
- Q4. a) Name two appliance each in which heating effect is (a) desirable (b) not desirable
b) How is resistance affected if length of a conductor is tripled and thickness is made one – third?
- Q5. A concave mirror produces three times minified real image of an object placed at 10 cm in front of it. Where is the image located?

- Q6. The linear magnification produced by a spherical mirror is $-1/5$. Analysing this value, state :
- The type of spherical mirror.
 - Position of object with respect to pole of the mirror. Draw the ray diagram to justify your answer.
- Q7. Name the type of mirror used in the following situations:
- Head light of car
 - Side/ rear- view
 - Mirror of a vehicle
- Q8. Rohit placed a pencil perpendicular to the principal axis in-front of a converging mirror of focal length 30cm. The image formed is twice the size of the pencil. Calculate the distance of the object from the mirror.
- Q9. The image of an object formed by mirror is real, inverted and is of magnification -1 . If the image is at a distance of 40cm from the mirror, where is the object Placed? Where should the image be if the object is moved 20 cm towards the mirror? State the reason and also draw the ray diagram for the new position of the object to justify your answer.
- Q10. The refractive indices of glass and water with respect to air are $3/2$ and $4/3$ respectively. If speed of light in glass is 2×10^8 m/s. Find the speed of light in water.
- Q11. State giving reason in each case, how the speed of red light compares with the speed of blue light (i) vacuum (ii) glass
- Q12. A ray of light incident on a rectangular glass slab inverted in any medium emerges parallel to itself. Draw a labelled diagram to justify this statement.
- Q13. The image of a candle flame placed at a distance of 30cm from a spherical lens is formed on a screen placed at a distance of 60cm from the lens. Identify the type of lens and calculate its focal length. If the height of the flame is 2.4cm. find the height of its image.
- Q14. An object 5 cm in length is held 25 cm away from a converging lens of focal length 10cm. Draw a ray diagram and find the position, size and the nature of the image formed.
- Q15. The power of a combination of two lenses X and Y is 4D. If the focal length of X is 12cm (i) calculate the focal length of lens Y (ii) Determine the nature of lens Y.
- Define power of lens. The power of lens is +2D.
 - Find the focal length of the lens in Metre.
- Q16. Name the kind of lens. Explain with the help of figure whether this lens will converge or diverge a beam of light.
- Q17. A 0.5 cm tall object is placed perpendicular to the principal axis of a convex lens of focal length 20cm. The distance of the object from the lens is 20cm. find the position, the size and nature of the image formed.
- Q18. Why do stars seem higher than they actually are? Illustrate your answer with the help of a diagram.
- Q19. a) Out of blue light and red light, which one is scattered more easily?
b) Which component of sunlight is scattered away when the sun appears red at sunrise or sunset?
- Q20. Why does the sun appear red at sunrise and at sunset?

Chemistry : Instructions :

- All the questions are to be done in Chemistry Homework Notebook.
 - Work should be neat and presentable.
- Q1. Name the products formed on strongly heating ferrous sulphate crystals. What type of chemical reaction occurs in this change?
- Q2. Giving an example list two information which make a chemical equation more useful (informative).
- Q3. Explain electrolytic refining of Copper.
- Q4. State the type of chemical reactions and chemical equations that take place in the following:
- Magnesium wire is burnt in air.
 - Electric current is passed through water.

- (iii) Ammonia and hydrogen chloride gases' are mixed.
- Q5. What is observed when a solution of potassium iodide solution is added to a solution of lead nitrate? Name the type of reaction. Write a balanced chemical equation to represent the above chemical reaction.
- Q6. Describe an activity to observe what happens when quick lime is added to water taken in a beaker. State two important observations and name the type of reaction taking place.
- Q7. Why does the colour of copper sulphate solution change when an iron nail is dipped in it? Write two observations?
- Q8. Hydrogen being a highly inflammable gas and oxygen being a supporter of combustion, yet water which is a compound made up of hydrogen and oxygen is used to extinguish fire. Why?
- Q9. A zinc plate was put into a solution of copper sulphate kept in a glass container. It was found that blue colour of the solution gets fader and fader with the passage of time. After few days, when zinc plate was taken out of the solution, a number of holes were observed on it.
- (i) State the reason for changes observed on the zinc plate.
- (ii) Write the chemical equation for the reaction involved.
10. When you have mixed the solutions of lead(II) nitrate and potassium iodide,
- (i) what was the colour of the precipitate formed and can you name the precipitate?
- (ii) write the balanced chemical equation for this reaction.
- (iii) is this also a double displacement reaction?
11. Name the raw materials used in the manufacture of sodium carbonate by Solvay process.
12. Write equations for the following reactions
- (i) Dilute sulphuric acid reacts with zinc granules
- (ii) Dilute hydrochloric acid reacts with magnesium ribbon.
- (iii) Dilute sulphuric acid reacts with aluminum powder.
13. What will you observe when:
- (i) Red litmus is introduced into a solution of sodium sulphate.
- (ii) Methyl orange is added to dil HCl.
- (iii). Blue litmus is introduced into a solution of ferric chloride.
14. A first aid manual suggests that vinegar should be used to treat wasp sting and baking soda for bee stings.
- (a) What does this information tell you about the chemical name of the wasp sting?
- (b) If there were no baking soda in the house, what other house hold substances would you use to treat as stings?
15. Explain why (a) Common salt becomes sticky during the rainy season.
- (b) Blue vitriol change to white upon heating.
16. A compound X of sodium is commonly used in kitchen for making crispy pakoras. It is also used for curing acidity in the stomach. Identify 'X'. What is its chemical formula? State the reaction that takes places when it is heated during cooking?
17. How is plaster of Paris chemically different from gypsum? How may these be inter converted? Write one use of plaster of Paris?
18. (a) What is the action of red litmus on
- (i) Dry ammonia gas
- (ii) Solution of ammonia gas in water?
- (b) State the observations you would make on adding ammonium hydroxide to aqueous solution of
- (i) ferric sulphate
- (ii) Aluminium chloride.
19. State the chemical property in each case on which the following uses of baking soda are based
- (i) As an antacid
- (ii) As a constituent of baking powder,
- Give the chemical for baking soda.
20. Metal compound 'A' reacts with dilute hydrochloric acid to produce effervescence. The gas evolved extinguishes a burning candle. Write a balanced chemical equation for the reaction, if one of the compounds formed is calcium chloride.

Biology: Instructions :

i) All the questions are to be done in Biology Homework Notebook.

ii) Work should be neat and presentable.

- Q1. Draw a labelled diagram of a cross- section of a leaf.
- Q2. What are the events which occur during the process of photosynthesis?
- Q3. What are stomata? Give their functions.
- Q4. Draw a labelled diagram of human alimentary canal.
- Q5. Name the substances present in the gastric juice and give one function of each.
- Q6. What are the different ways in which glucose is oxidised to provide energy in various organisms?
- Q7. Draw a schematic diagram of sectional view of human heart.
- Q8. Give reasons for the following:
- (a) Arteries are thick- walled.
 - (b) The right and left side of the human heart are separated.
 - (c) A proper system of transportation is essential in plants if the distances between soil- contacting organs and chlorophyll containing organs are large.
- Q9. Explain, how are water and minerals transported in plants?
- Q10. Explain, how is food transported in plants?
- Q11. What are the components of the transport system in human beings? Give functions of these components.
- Q12. What are the methods used by plants to get rid of excretory products.
- Q13. (a) Draw a neat diagram of human excretory system and label on it- Left kidney, Aorta, Left Ureter, Urinary bladder, Urethra and Renal artery.
- (b) List four substances present in the initial filtrate which are selectively reabsorbed by the tubules of nephron.
- Q14. (a) Draw a labelled diagram of human respiratory system.
- (b) Differentiate between aerobic and anaerobic respiration.
- Q15. (a) Give a schematic representation of transport and exchange of oxygen and carbon- dioxide in our body.
- (b) Differentiate between arteries and veins.
- Q16. (a) Draw a labelled diagram of filtration unit of Kidney.
- (b) Compare the functioning of alveoli in lungs and nephrons in the kidneys with respect to their structure and functioning.
- Q17. Mention the receptors for light and sound in animals.
- Q18. What is reflex action? Explain with the help of an example?
- Q19. Draw a labelled diagram of human brain.
- Q20. Name the part of neuron (a) where information is acquired (b) through which information travels.

Social Science :

1. Undertake any one project on the following topics :

i) **CONSUMER AWARENESS**

ii) **SOCIAL ISSUES**

iii) **SUSTAINABLE DEVELOPMENT**

2. Prepare a project file with the following details :

- i) The total length of the project report should be 8-10 written pages of A4 size sheet.
- ii) If possible, different forms of **art may be integrated** in the project work.
- iii) The project Report should be handwritten by the students themselves.
- iv) The project report should be presented in a neatly bound simple folder.
- v) The project report should be developed and presented in this order :
 - a) Cover Page showing project title, student's name, class, section, school and year.
 - b) List of contents with page numbers.


- c) Acknowledgement
- d) Chapters with relevant headings.
- e) Conclusion
- f) Bibliography : should have the Title, author, publisher and if a website the name of the website with the specific website link which has been used.


Computer:

- Q1. What are "Styles" ? Write the different categories of it . How is fill format mode related to it?
- Q2. Differentiate between style and templates in WRITER.
- Q3. What are "What if " analysis tools? Name and define any three such tools in "CALC".
- Q4. What is the purpose of the feature "Data Consolidation " and "Subtotals "
- Q5. Define the feature "Table of Content" in Writer .
- Q6. Solve UT1 question paper in HW notebook.

French :

- 1. Practice past papers of French from 2018-2022.
- 2. Regardez le film " Amélie"
- 3. Vous avez un nouveau boulot. Décrivez votre travail à votre famille.
- 4. Écrivez un message à votre ami/e pour lui dire de venir chez vous pour vous aider à organiser la soirée d'anniversaire de votre frère cadet.
- 5. Learn all the nominal and verbal forms . (List already *given* in the class)
- 6. Learn and write the list of the adjectives of quality and colour with their opposites .(Refer pg 139 & 140 of the textbook)
- 7. Learn and write the list of Past Participles form of verbs . (Refer pg 173 & 174 of the textbook)


HEAD SENIOR SCHOOL


PRINCIPAL