

THE ASIAN SCHOOL, DEHRADUN
HOLIDAY HOMEWORK- SUMMER VACATION 2024 FOR CLASS X

English:

INSTRUCTIONS FOR COMPILATION OF HOLIDAY HOMEWORK :

I. Reading Skills

FOOTPRINTS WITHOUT FEET (Supplementary Reader)

Read the stories mentioned below and write the Central Theme, Message and Value points of each lesson in your HW notebook.

- CH 2. The Thief's Story
- CH 3. The Midnight Visitor
- CH 4. A Question of Trust
- CH 5. Footprints without Feet
- CH 6. The Making of a Scientist
- CH 7. The Necklace

II. Writing Skills

Write the following letters in a Project File:

1. You are Nehal Kumar, Head of the Computer Club in Sunshine School, Noida. Digital literacy refers to someone's ability to use digital technology to find, evaluate, create and communicate information. You believe that digital literacy and navigating the digital world responsibly is crucial in today's technology-dependent age.

Write a letter to the Editor of a national daily, in about 120 words, stressing the need for promoting digital literacy among individuals of all age groups. Discuss the benefits and challenges of digital technology, and propose initiatives to empower people with digital skills. (100-120 words)

2. You have purchased a computer for personal use. After using it for about a month, you have started having problems in it, like its CPU is not working properly, screen is flickering etc. Write a letter to the manager of the complaint cell of Abott Computers Pvt Ltd. about the faulty computer in about 100-120 words. Sign yourself as Dev/ Devika of Janakpuri, Delhi. (100-120 words)
3. You are Shivam/Shivani of C-12, Janakpuri, Indore. You wish to make a pilgrimage to Badrinath, Kedarnath and Haridwar with your family of six. Write a letter to R.K. Travels, enquiring about the schedule of their conducted tour by Deluxe buses to these places. Ask about the charges, boarding and lodging arrangements and the total time needed for the tour. (100-120 words)
4. 'As the Head of the Music Department of your school, write a letter to Mysore Music Associations, placing an order for some instruments such as flute, casio, sitar, harmonium, etc. You are Nandini/Namit Verma of Army School, Safdarjung, Enclave, Delhi. (100-120 words)

III. Speaking Skills

SUBJECT ENRICHMENT ACTIVITY:

Students are guided to prepare any five topics from the following for the ASL:

- 1) Importance of sports and games
- 2) Pleasures of mountaineering
- 3) Modern fashion
- 4) Inside an examination hall
- 5) If I become a millionaire

- 6) Generation gap
 - 7) Variety is the spice of life
 - 8) Cowards die many a time before their death
 - 9) Adversity brings out the best in man
 - 10) Corona - a pandemic
- (Time limit 2 to 3 minutes)

Hindi: परियोजनाकार्य विषय—

- 1—भारत में ऋतुओं का क्रम एवं महत्त्व दर्शाते हुए शरद ऋतु की विशेषताओं को सचित्र आकर्षक परियोजना द्वारा दर्शाइए।
 - 2—नेताजी सुभाषचंद्र बोस के व्यक्तित्व व कृतित्व पर सचित्र परियोजना तैयार कीजिए।
 - 3—सूरदास के भ्रमरगीत की विशेषताएं बताते हुए एक सचित्र आकर्षक परियोजना तैयार कीजिए।
 - 3—वाच्य और रचना के आधार पर वाक्य विषय पर सचित्र परियोजना बनाइए।
 - 4—औपचारिक पत्र के प्रकार का वर्गीकरण
 - 5—संज्ञा, सर्वनाम, क्रिया या विशेषण और क्रिया या विशेषण की परिभाषा और उदाहरण लिखिए।
- निर्देश—**

परियोजना का —

प्रथम पृष्ठ—विद्यार्थी का नाम, कक्षा अनुक्रमांक, विद्यालय का नाम

द्वितीया पृष्ठ—आभार ज्ञापन

तृतीया पृष्ठ—प्रमाणपत्र

चतुर्थ पृष्ठ—अनुक्रमाणिका

पंचम पृष्ठ—प्रस्तावना

षष्ठम् पृष्ठ—सम्पूर्ण चित्राकर्षक परियोजना

अन्तिम पृष्ठ—संदर्भ ग्रन्थ

निर्देश—सम्पूर्ण कार्य आन्तरिक मूल्यांकन के अन्तर्गत जाँचा जायेगा।

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 QUADARTIC FORMULAE.
- NOTE ONUSES AND APLICATION 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 ASESMENT 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 looseruled 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 WINTER VACATIONS.

(C) Solve the question paper of UT-1 in the MATHS HW NOTEBOOKS.

(4). (MULTIPLE ASSESSMENTS): Prepare a power-point presentation on the following topic as per the instruction given by the subject teachers.

TOPIC: CIRCLES IN MATHEMATICS FORM AN INTEGRAL PART OF HUMAN LIFE

NO OF SLIDES : MAXIMUM 20

TOTAL TIME : 4 MINUTES

GUIDELINES FOR MAKING THE PPT:

Circles are a fundamental shape and have many practical applications in real life problems. Some examples of applications for circles include:

1. **Engineering and construction:** Circles are used in many engineering and construction projects, such as the design of bridges, arches, and domes. They are also used to create circular shapes in buildings and other structures, such as circular staircases, round windows, and circular fountains.
2. **Transportation:** Circles are used in the design of wheels, gears, and pulleys, which are essential components in many forms of transportation such as cars, trains, and airplanes.
3. **Agriculture:** Circles are used in irrigation systems, such as center-pivot irrigation, in which a circular sprinkler system is used to water crops.
4. **Geography and mapping:** Circles are used in many geographical and mapping applications, such as the creation of circular maps, and the measurement of distance and area on a map.
5. **Medicine:** Circles are used in many medical applications, such as the design of circular surgical incisions, circular bandages, and circular x-ray images.
6. **Sports:** Circles are used in many sports and physical activities, such as the design of tracks and running fields, the shape of basketball and soccer courts, and the shape of the rings in gymnastics and diving.
7. **Art and design:** Circles are used in many art and design applications, such as the creation of circular logos, circular paintings and sculptures, and circular patterns in textiles and architecture.

SCIENCE

1) 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.

2) SCIENCE EXPERIMENTS: Science is about experiments and practical knowledge. In order to utilise your vacation, write down the experiments mentioned below in your Physics, Chemistry and Biology Practical Files separately from the prescribed Science Lab Manual.

PHYSICS:

Experiment 1: Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plotting a graph between V and I .

Experiment 2: Determination of the equivalent resistance of two resistors when connected in series and parallel.

Experiment 3: Determination of the focal length of:

- i) Concave mirror
- ii) Convex lens by obtaining the image of a distant object.

Experiment 4: Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.

Experiment 5: Tracing the path of the rays of light through a glass prism.

Instructions: Following instructions are to be followed while writing the Physics experiments-

- (i) The practical file should contain a cover page showing Name of the student, Class & Section, Subject, Academic session and the name of school.
- (ii) The experiments should be neatly handwritten written in Physics Practical File.
- (iii) The headings can be written with Black ink pen and the content is to be written with Blue ink pen.
- (iv) The content for the Experiments should have the following headings in sequence-
 - Aim/Objective of the experiment
 - Apparatus/Materials Required
 - Observation table
 - Result
 - Precautions
- (v) The related diagrams are to be neatly drawn in the plain page with pencil only.

CHEMISTRY:

Experiment 1:

A. Finding the pH of the following samples by using pH paper/universal indicator:

- (i) Dilute Hydrochloric Acid
- (ii) Dilute NaOH solution
- (iii) Dilute Ethanoic Acid solution
- (iv) Lemon juice
- (v) Water
- (vi) Dilute Hydrogen Carbonate solution

B. Studying the properties of acids and bases (HCl & NaOH) on the basis of their reaction with:

- a) Litmus solution (Blue/Red)
- b) Zinc metal
- c) Solid sodium carbonate

Experiment 2: Performing and observing the following reactions and classifying them into:

- A. Combination reaction
- B. Decomposition reaction
- C. Displacement reaction
- D. Double displacement reaction
- (i) Action of water on quicklime
- (ii) Action of heat on ferrous sulphate crystals
- (iii) Iron nails kept in copper sulphate solution
- (iv) Reaction between sodium sulphate and barium chloride solutions

Experiment 3: Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions:

- i) $ZnSO_4(aq)$
- ii) $FeSO_4(aq)$
- iii) $CuSO_4(aq)$
- iv) $Al_2(SO_4)_3(aq)$

Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result.

Experiment 4: Study of the following properties of acetic acid (ethanoic acid):

- i) Odour
- ii) solubility in water
- iii) effect on litmus
- iv) reaction with Sodium Hydrogen Carbonate

Experiment 5: Study of the comparative cleaning capacity of a sample of soap in soft and hard water.

Instructions: Following instructions are to be followed while writing the Chemistry experiments-

- (i) The practical file should contain a cover page showing Name of the student, Class & Section, Subject, Academic session and the name of school.
- (ii) The experiments should be neatly handwritten written in Chemistry Practical File.
- (iii) The headings can be written with Black ink pen and the content is to be written with Blue ink pen.
- (iv) The content for all the Experiments should have the following headings in sequence-
 - Aim/Objective of the experiment
 - Apparatus/Materials Required
 - Chemicals Required
 - Procedure
 - Observations
 - Conclusion
 - Precautions
 - Sources of Error
- (v) The related diagrams are to be neatly drawn in the plain page with pencil only.

BIOLOGY:

Experiment 1: Preparing a temporary mount of a leaf peel to show stomata.

Experiment 2: Experimentally show that carbon dioxide is given out during respiration.

Experiment 3: Studying (a) binary fission in *Amoeba*, and (b) budding in yeast and Hydra with the help of prepared slides.

Experiment 4: Identification of the different parts of an embryo of a dicot seed (Pea, gram or red kidney bean).

Instructions: Following instructions are to be followed while writing the Biology experiments-

- (i) The practical file should contain a cover page showing Name of the student, Class & Section, Subject, Academic session and the name of school.
- (ii) The experiments should be neatly handwritten written in Biology Practical File.
- (iii) The headings can be written with Black ink pen and the content is to be written with Blue ink pen.
- (iv) The content for Experiment 1, 2 & 4 should have the following headings in sequence-
 - Aim/Objective of the experiment
 - Materials Required
 - Observations
 - Conclusion
 - Precautions
- (v) The content for the Experiment 3 should have the identifying features of (a) binary fission in *Amoeba*, and (b) budding in yeast and Hydra.
- v) The related diagrams are to be neatly drawn in the plain page with pencil only.

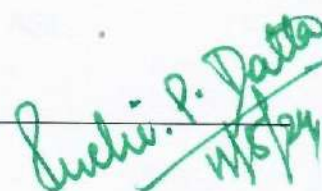
Social Science :

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) It should be presented in a neatly bound simple folder.
 - v) It 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 the different methods to create user defined Styles in WRITER. How is fill format mode related to it?
- Q2. What is the difference between Styles and Templates in WRITER.
- Q3. What are the advantages of being self-motivated and self-regulated.
- Q4. Define the feature "Table of Content" in Writer .
- Q5. Solve UT1 question paper in HW notebook.


HEAD SENIOR SCHOOL


PRINCIPAL