



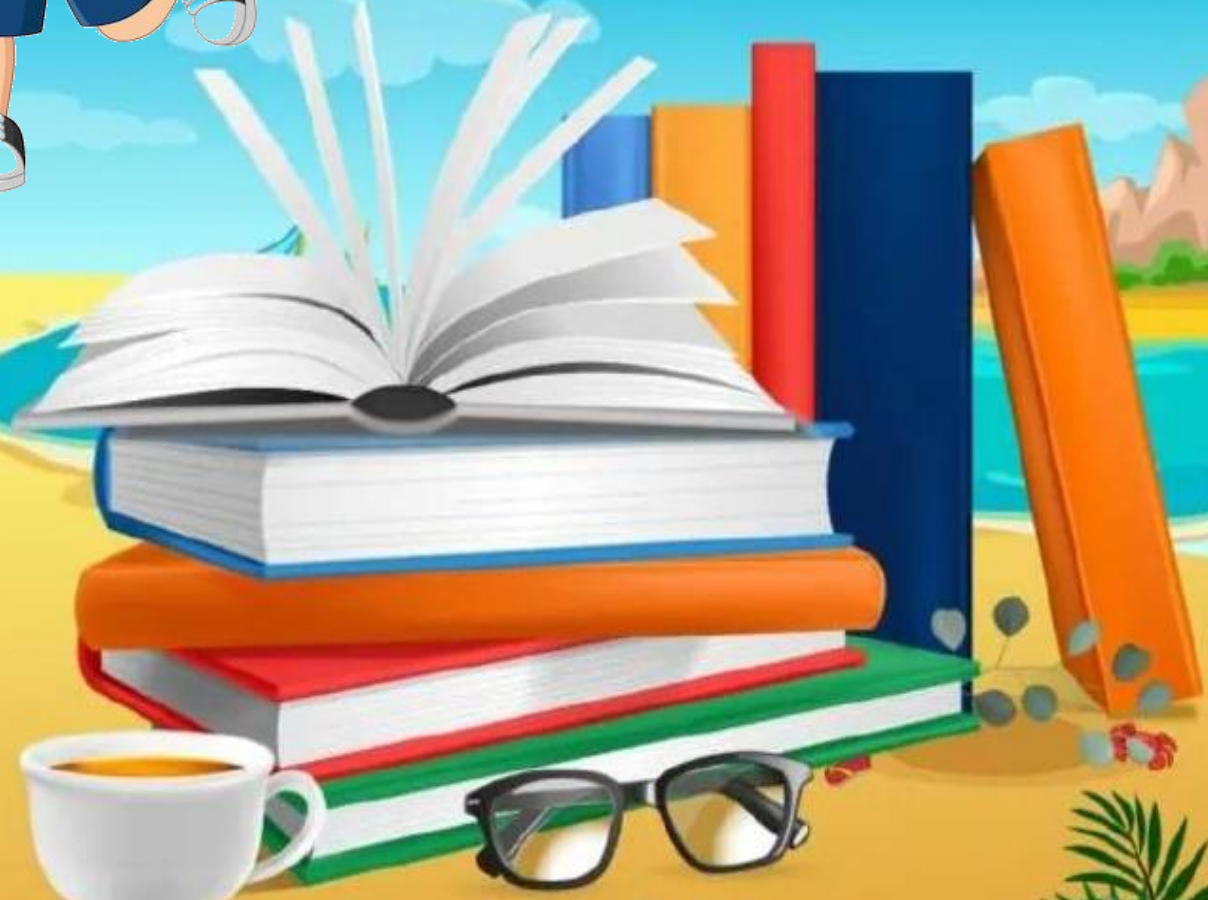
# HERITAGE CHILDREN ACADEMY

(Senior Secondary School Affiliated to CBSE, New Delhi)

NH-24, Jalif Nagla, Teh- Milak, Distt. Rampur (U.P) 244701

## SESSION : 2026-27

# Summer Holiday Homework



## CLASS: XI

[www.heritagemilak.com](http://www.heritagemilak.com)

Dear Students,

Holidays are the most anticipated time of the year for everyone. I hope you enjoy it a lot next to your family and when you come back you will tell us your best experiences. Beat the heat by drinking lemonade, coconut water and eating Fresh fruits. We wish you a very happy and a fruitful family time during this summer vacation. The school is closed for summer vacation from **1<sup>st</sup> June to 30<sup>th</sup> June, 2026 for Class XI.**

**GENERAL INSTRUCTIONS FOR ASSIGNMENT-**

- It is summer vacation time, a time to relax as well as to get fruitfully occupied in various scholastic and co-scholastic areas. Keeping this in mind, we have designed interesting Projects/Assignments to be completed during the summer vacation. This would encourage in-depth learning, strengthen concepts and prepare ground for improved academic output.
- It will not only enable you to recapitulate what was taught but will also help you to connect yourselves to the various learning processes. These projects will be assessed as Subject Enrichment Activity for Term I.
- Dear parents, kindly motivate and lend support to your children and ensure that they complete the given work well in time and to the best of their ability. Your encouragement can actually make a huge difference to the ultimate learning outcome of these projects.
- During the break Inculcate healthy eating habits in your children, give them fruits and balanced diet with vitamin C and ask them to get up early in the morning.

Do breathing exercise/Yoga daily.

**For queries related to fee, new admission, transfer certificate documentation you may contact the mentioned WhatsApp number between 10 AM to 2 PM.  
(Dipanshu Sharma:- 9759431635 & Mahendra Kumar Pandey:- 8433110811)**

## ENGLISH

### Activity 1: Cut, Paste & Analyse (5 Marks)

#### Learning Objectives:

- To identify **types of advertisements**
- To understand **purpose and features**

#### Learning Outcomes:

Students will be able to:

- Recognise different **ad formats**
- Analyse simple **content and appeal**

#### Task:

- Cut **ANY ONE advertisement** from a **newspaper/magazine** (For Sale / Job / Lost & Found / To Let)
- Paste it neatly on an A4 sheet
- Below it, write answers (in 4–5 lines each):
  1. What type of advertisement is it?
  2. What is being advertised?
  3. Write one **feature** and one **attraction** used.
  4. Do you find it effective? Why?

#### Rubrics

Creativity	–	2M
Format and content	-	2M
Language	-	1M

### Activity 2 - Past vs Present Reflection (5Marks)

The poem shows how time changes everything, but memories remain through photographs.

#### Task:

- Take or choose **any old photograph from your family album**
- Paste it on an A4 sheet
- Write **6–8 lines** answering:
  - What does this photograph show?
  - How might things have changed now?
  - What emotions does it create today?

#### Rubrics

Relevance to photograph and Poem	–	2 M
Reflection and ideas	-	2M
Language and presentation	-	1M

## HINDI

विषय - "सोशल मीडिया और हिंदी भाषा पर उसका प्रभाव" विषय पर एक प्रोजेक्ट फाइल तैयार करें।

रूबरिक्स	*साफ सुथरा और आकर्षक लेआउट	(02)
	*चित्रों का प्रयोग	(02)
	*समय अवधि	(01)
	*विषय ज्ञान	(05)

## MATHS

### TOPIC: TRIGONOMETRY

#### ASSIGNMENT 1: THE UNIT CIRCLE PROJECT

(2 marks)

1. Create a "Trig-Circle" on an A4 sheet.
2. Mark angles from 0 to 360 degrees.
3. Next to each degree, write its Radian value (Example: 180 degrees =  $\pi$ ).
4. Label the (x, y) coordinates for standard angles like 30, 45, and 60 degrees.

#### ASSIGNMENT 2: GRAPHING TASK

(2 marks)

On graph paper, draw the waves for the following:

1.  $y = \sin(x)$
2.  $y = \cos(x)$

Requirement: Use the x-axis for angles (0, 90, 180, 270, 360) and the y-axis for values between 1 and -1.

#### ASSIGNMENT 3: SOLVE THE FOLLOWING PROBLEMS

(2 marks)

(Show all calculation steps clearly)

1. CONVERSION: Convert 40 degrees 20 minutes into radian measure.
2. FIND VALUE: Find the exact value of  $\sin(765)$ .
3. FIND VALUE: Find the exact value of  $\tan(19\pi/3)$ .
4. PROOF 1: Prove that  $[\sin(x+y) / \sin(x-y)]$  is equal to  $[(\tan x + \tan y) / (\tan x - \tan y)]$ .
5. PROOF 2: Prove that  $\cos(4x) = 1 - 8(\sin x)^2 (\cos x)^2$ .

#### ASSIGNMENT 4: FORMULA DIARY

(2 marks)

Handwrite the following formula sets in a small notebook:

- Addition and Subtraction formulas ( $\sin(A+B)$ , etc.)
- Double Angle formulas ( $\sin 2A$ ,  $\cos 2A$ ,  $\tan 2A$ )
- Transformation formulas (Converting Sums to Products)

#### ASSIGNMENT 5: PRACTICAL APPLICATION

(2 marks)

1. Use a protractor and a string to make a simple "Clinometer."
2. Stand 10 feet away from a wall or tree.
3. Measure the angle to the top.
4. Use the  $\tan\theta$  formula to calculate the height of that object.

## PHYSICS

Make a Project file (select one topic)

- Topics :
1. units and measurement
  2. Motion in a straight line
  3. Motion in a plane
  4. laws of motion
  5. Work energy and power

#### Rubrics

(Class 11 Physics Project – 10 Marks):

Content Accuracy & Concepts	– 4 Marks
Diagrams / Graphs & Presentation	– 2 Marks
Practical Understanding / Application	– 2 Marks
Neatness, Creativity & Completion	– 2 Marks

## CHEMISTRY

● Make a Chemistry project atleast 10 to 15 pages for Chemistry practical. Topics are given below .

1. Laws of Chemical Combination
2. Quantum Numbers
3. Electronic Configuration
4. Modern Periodic table
5. Atomic Models of Atom.

### Rubrics (10M)

Presentation = 3M

Content = 5M

Neatness = 2M

## BIOLOGY

Make a Herbarium file of Observe common plants around your home or neighborhood such as ferns, mo sses, or flowering plants. Sketch and label their key features like roots, stems, leaves, and reproductive parts on A4 sheets. Include notes on how they adapt to local Uttar Pradesh conditions, like monsoon dependence, using colored pencils for diagrams.

### Rubrics

Collection of plants :- 05 M

Classification :- 03M

Neatness :- 02M

## ACCOUNTANCY

### Rubrics:-

- 1 Initiative, cooperativeness and participation 4 Mark
- 2 Creativity in presentation 4 Mark
- 3 Content, observation and research work 8 Marks
- 4 Analysis of situations 4 Marks

### Total 20 Marks

List of options to the students to select a business form.

1. A beauty parlour
2. Men's wear
3. A coffee shop
4. Men's saloon
5. Ladies wear
6. A music shop
7. A tailoring shop
8. Kiddies wear
9. A juice shop
10. A canteen
11. A Saree shop
12. A school canteen
13. A cake shop

14. Artificial jewellery shop

15. An ice cream parlour

After selection, the student(s) to visit a shop in the locality (this will help them to settle on a realistic amounts different items. The student(s) would be able to see the things as they need to invest in furniture, decor, lights, machines, computers etc.

1. Take 20 business transactions of the business enterprise you have selected.
2. Prepare the accounting equation from these transitions.
3. Prepare journal entries of these transitions.

**Following essentials are required to be fulfilled for its preparation and submission.**

1. The total length of the project will be of 25 to 30 pages.
2. The project should be handwritten.
3. The project should be presented in a neat folder.
4. The project report should be developed in the following sequence-  
Cover page should include the title of the Project, student information, school and year.  
List of contents.  
Acknowledgements and preface (acknowledging the institution, the places visited and the persons who have helped).  
Introduction.  
Certificate  
Topic with suitable heading.  
Planning and activities done during the project, if any.  
Observations and findings of the visit.  
Conclusions (summarized suggestions or findings, future scope of study).  
Photographs (if any)

### **BUSINESS STUDIES**

**Rubrics:-**

- 1 Initiative, cooperativeness and participation 4 Mark
- 2 Creativity in presentation 4 Mark
- 3 Content, observation and research work 8 Marks
- 4 Analysis of situations 4 Marks

**Total 20 Marks**

**Roll number (1 to 10)**

**1. Visit to a wholesale market** vegetables/fruits/flowers/grains/garments etc.

The students are required to observe the following:

- a) Sources of merchandise.
- b) Local market practices.
- c) Any linked up businesses like transporters, packagers, money lenders, agents, etc.
- d) Nature of the goods dealt in.
- e) Types of buyers and sellers.
- f) Mode of the goods dispersed, minimum quantity sold, types of packaging employed.
- g) Factors determining the price fluctuations.
- h) Seasonal factors (if any) affecting the business.

- i) Weekly/ monthly non-working days.
- j) Strikes, if any- causes thereof.
- k) Mode of payments.
- l) Wastage and disposal of dead stock.
- m) Nature of price fluctuations, reason thereof.
- n) Warehousing facilities available\availed.
- o) Any other aspect.

**Roll number (11 to 20)**

**2. Visit to a Departmental store**

The students are required to observe the following:

- a) Different departments and their lay out.
- b) Nature of products offered for sale.
- c) Display of fresh arrivals.
- d) Promotional campaigns.
- e) Spaces and advertisements.
- f) Assistance by Sales Personnel.
- g) Billing counter at store – Cash, Credit Card/ Debit Card, swipe facility. Added attractions and facilities at the counter.
- h) Additional facilities offered to customers
- i) Any other relevant aspect.

**Roll number (21 to Last roll number )**

**3. Visit to a Mall.**

The students are required to observe the following:

- a) Number of floors, shops occupied and unoccupied.
- b) Nature of shops, their ownership status
- c) Nature of goods dealt in: local brands, international brands,
- d) Service business shops- Spas, gym, saloons etc.
- e) Rented spaces, owned spaces,
- f) Different types of promotional schemes.
- g) Most visited shops.
- h) Special attractions of the Mall- Food court, Gaming zone or Cinema etc.
- i) Innovative facilities.
- j) Parking facilities.

**Following essentials are required to be fulfilled for its preparation and submission.**

1. The total length of the project will be of 25 to 30 pages.
2. The project should be handwritten.
3. The project should be presented in a neat folder.
4. The project report should be developed in the following sequence-  
Cover page should include the title of the Project, student information, school and year.  
List of contents.  
Acknowledgements and preface (acknowledging the institution, the places

visited and the persons who have helped).

Introduction.

Certificate

Topic with suitable heading.

Planning and activities done during the project, if any.

Observations and findings of the visit.

Conclusions (summarized suggestions or findings, future scope of study).

Photographs (if any)

## ECONOMICS

Dear Students,

You are hereby informed that your Holiday Assignment has been assigned. As part of this assignment, you are required to select any one topic from the given list.

In addition to the provided list, you may also choose a topic from your Economics textbooks (both books). Furthermore, you are free to select any relevant topic related to Economics such as Demonetization, Digital India, Make in India, Swachh Bharat Abhiyan, etc. However, it is mandatory that your chosen topic must be related to Economics.

After selecting the topic, you must prepare a project file based on your chosen subject.

Please ensure the following guidelines are strictly followed:

The project file should be minimum 25 pages in length.

1. The content must be well-organized, neat, and informative.
2. Proper headings, subheadings, and relevant illustrations/images should be included wherever necessary.
3. The project must reflect your original work and creativity.
4. The completed file must be spiral bound; otherwise, it will not be accepted.
5. All students are advised to take this assignment seriously and submit quality work within the given time.

Best wishes for your work!

### Suggestive List of Projects:

Class XI	
• Effect on PPC due to various government policies	• Invisible Hand (Adam Smith)
• Opportunity Cost as an Economic Tool (taking real life situations)	• Effect of Price Change on a Substitute Good (taking prices from real life visiting local market)
• Effect on Equilibrium Prices in Local Market (taking real life situation or recent news)	• Effect of Price Change on a Complementary Good (taking prices from real life visiting local market)
• Solar Energy, a Cost-Effective Comparison with Conventional Energy Sources	• Bumper Production- Boon or Bane for the Farmer
• Any other newspaper article and its evaluation on basis of economic principles	• <b>Any other topic</b>

S.N.	Heading	Marks Allotted
1	Relevance of the topic	3
2.	Knowledge Content/Research work	6
3.	Presentation Technique	3
4.	Viva-voce	8
	Total	20 M

### PHYSICAL EDUCATION

01- Physical fitness test. (lab manual) 6 marks

02 - Proficiency in games and sports (skill of any one game of choice from the given - (project file) 10marks

03- Yogic practice

i. Matsyasana

ii. Ardha-Halasana

iii. Halasana

iv. Gomukhasana

v. Vakrasana

vi. Chakrasana

vii. Ustrasana

viii. Utkatasana

ix. Pawanmuktasana

x. Dhanurasana

Prepare all the Aasna for demonstration :- 9M

04- Games & sports :- 5M

### POLTICAL SCIENCE

Prepare a Project Report on any one of the following topics:

Making of the Constitution

**OR**

Election in India

**OR**

Rights in Indian Constitution

Project Format

▪ Front Page

▪ Acknowledgement Page

▪ Certificate Page

▪ Index Page

▪ Content

▪ Conclusion

▪ Bibliography

### RUBRICS

Criteria Marks

Introduction 1 Mark

Content & Analysis	4 Marks
Presentation & Creativity	3 Marks
Conclusion	1 Mark
Bibliography	1 Mark

## HISTORY

Prepare a Project File on any one of the following topics:

- From the Beginning of Time:

Covers human evolution, stone tools, and early hunter-gatherer societies.

Writing and City Life

- Explores early civilization in Mesopotamia, focusing on urban life, writing, and social structures.

Project File Format

- Front Page
- Acknowledgement
- Certificate
- Index
- Introduction
- Main Content with Pictures/Maps
- Conclusion
- Bibliography

### RUBRICS-

Introduction & Research Work :-	2 Marks
Content :-	3 Marks
Presentation & Creativity :-	2 Marks
Pictures/Maps & Decoration :-	1 Marks
Conclusion & Bibliography :-	2 Marks

## COMPUTER SCIENCE

Question 1: Draw a clean diagram of Computer Organisation on the basis of Computer System Overview and discuss its all parts in details

Question 2: Draw a clean diagram of Mobile Organisation and discuss its all parts in details.

### DRAWING

Class	Holiday activity H.w.	M.M
Class 11th. ABCD	5 picture still life pencil shading 5 pipe picture landscape use watercolor	40 marks

**“YOUR FUTURE IS CREATED BY WHAT YOU DO TODAY,  
NOT TOMORROW.”**