



# HERITAGE CHILDREN ACADEMY

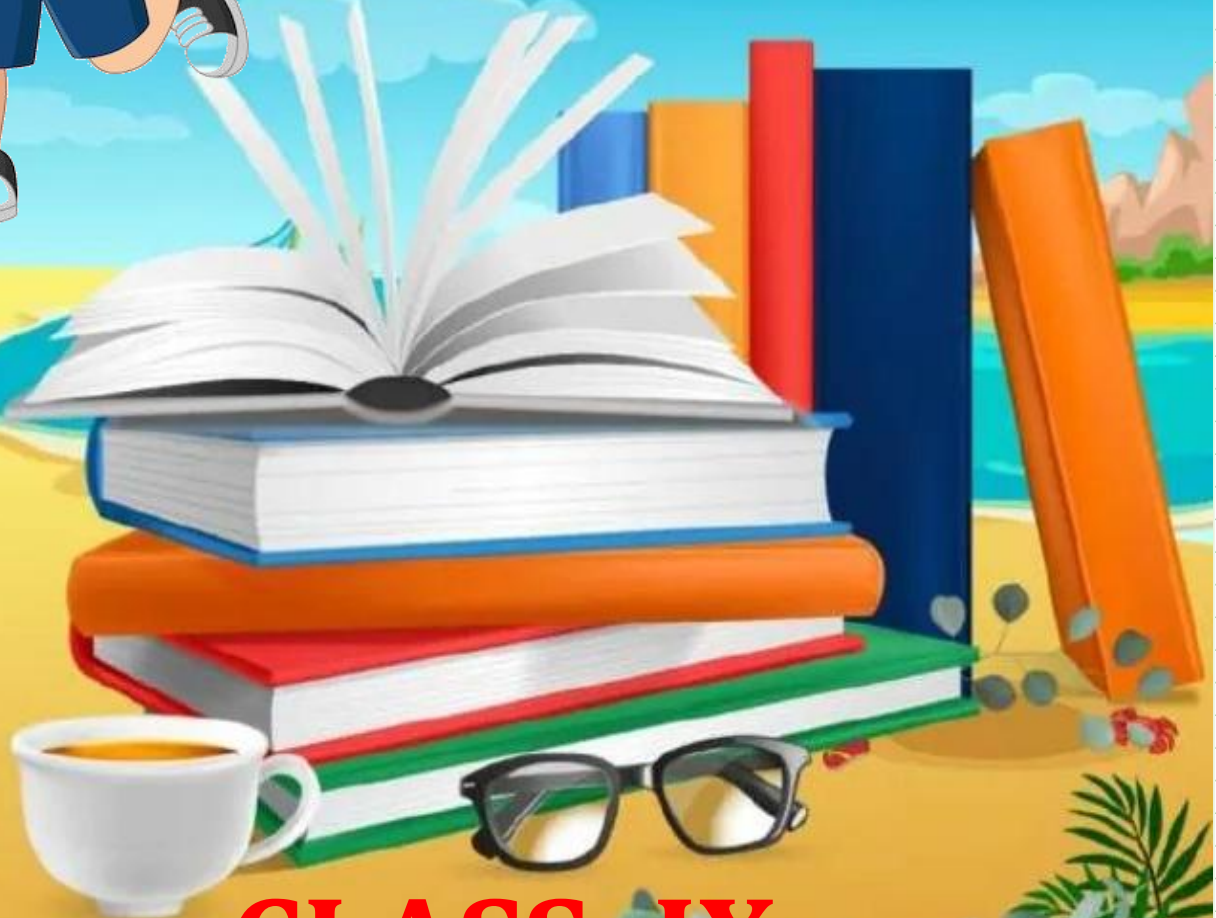
(Senior Secondary School Affiliated to CBSE, New Delhi)

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

## SESSION : 2026-27



# Summer Holiday Homework



## CLASS: IX

[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 IX.**

**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

### Objectives

- To enhance reading, writing, and creative thinking skills
- To develop imagination and expression through language
- To improve vocabulary and grammatical accuracy
- To encourage independent learning and observation

### Q1. Book Exploration (Reading + Writing)

- Read any one storybook/novel of your choice
- Prepare a **Creative Book Review File** including:
  - Title & Author
  - Summary (in your own words)
  - Character Sketch (any one character)
  - Alternate Ending (your imagination)
  - Your Learning from the story

### Q2. Diary Writing (Imaginative Expression)

- Write **any 2 diary entries** (80–100 words each) on:
  - A day without mobile/Internet
  - Meeting your future self
  - A surprising summer day
  - Helping someone in need
  - Any one real-life experience

### Rubrics (5 Marks each)

Criteria	Marks
Creativity & Originality	1
Content & Understanding	1
Language & Expression	1
Presentation & Neatness	1
Completion of Task	1

## HINDI

### महान साहित्यकार पर परियोजना:-

किसी एक भारतीय हिंदी लेखक/कवि (जैसे – कबीर, प्रेमचंद) पर 2–3 पृष्ठ का प्रोजेक्ट तैयार करें :

- \* जीवन परिचय
- \* प्रमुख रचनाएं, रचनाओं का संक्षिप्त विवरण

### रूबरिक्स

- \* साफ-सुथरा और आकर्षक लेआउट (02 अंक)
- \* व्याकरण और वर्तनी की शुद्धता (02 अंक)
- \* चित्र का प्रयोग (01 अंक)
- \* समय अवधि (02 अंक)
- \* विषय ज्ञान (03 अंक)

## MATHS

**Objective :-** Make a project file to Write about any two Indian Mathematicians and their contributions in the field of Mathematics. Also paste the pictures of these two mathematicians.

### RUBRICS:

1. Content : 4M
2. Presentation with Art : 5M
3. Punctuality : 1M

## PHYSICS

### Activity 1.

The data regarding the motion of two different objects A and B are given in Table Examine them carefully and state whether the motion of the objects is uniform or non uniform.

Time	Distance travelled by object A in m	Distance travelled by object B in m
9:30 am	10	12
9:45 am	20	19
10:00 am	30	23
10:15 am	40	35
10:30 am	50	37
10:45 am	60	41
11:00 am	70	44

### Activity 2.

measure the time it takes you to walk from your house to your bus stop or the school. If you consider that your average walking speed is 4 km/hr .

Estimate the distance of the bus stop or school from your house.

### Rubrics (10 Marks):

Activity 1 (4M): Correct identification of uniform/non-uniform motion + explanation.

Activity 2 (4M): Accurate time measurement and correct distance calculation using formula.

Presentation (2M): Neat work and proper steps.

Focus on concept clarity, correct units, and real-life application.

## CHEMISTRY

### Part A: Project Work (Do Any ONE)

#### Project 1: Types of Mixtures Around Us

**Content:**

Define mixture

**Types:**

Homogeneous (solutions)

Heterogeneous (colloids, suspensions)

Examples from daily life

**Activity:**

Paste pictures or draw:

Milk (colloid)

Muddy water (suspension)

Prepare a comparison chart

**Project 2: Methods of Separation of Substances****Content:**

Filtration

Evaporation

Distillation

Chromatography

Centrifugation

**Activity:**

Perform any 1 method at home:

Separate sand & water (filtration)

Paste photos / draw diagrams

**Project 3: Pure Substances vs Mixtures****Content:**

Definition

Elements, compounds

Mixtures

Differences (at least 5 points)

Examples from home

**Part B: Activity (Compulsory)****Simple Experiment: Separation of Mixture**

Take sand + salt mixture

Add water → filter → evaporate

Write:

Aim

Materials

Procedure

Observation

Conclusion

**Part C: Comprehensive Questions (CBSE Pattern)****Section A – 1 Mark**

1. Define pure substance.
2. What is a solution?
3. Give one example of a colloid.

4. What is solute?

### Section B – 2 Marks

1. Write two differences between homogeneous and heterogeneous mixtures.
2. What is a suspension? Write its properties.
3. Define solubility.

### Section C – 3 Marks

1. Differentiate between:
2. Solution and colloid
3. Explain properties of a solution.
4. Describe filtration method with diagram.

**Note:- While performing the activity, kindly may a short video.**

## BIOLOGY

Chapter: Cell – Connecting Science with Daily Life Objective:

To understand how cell concepts like diffusion, osmosis, and organelles are related to everyday life.

### Task 1: Real-Life Cell Application Activity (10 Marks)

Activity (Any ONE):

Option A: Kitchen Science

Perform an experiment at home:

Cut cucumber or potato slices

Put one in salt water and one in plain water

Observe after 30–60 minutes

Write (in notebook):

What changes did you observe?

Which process is involved (diffusion/osmosis)?

Explain scientifically why the change happened

### Option B: Cell in Daily Life

Choose any ONE real-life example:

Why do fingers shrink in water?

Why do plants wilt without water?

Why are ORS solutions given during dehydration?

**Write:**

Explain the situation

Link it with cell concepts (osmosis/diffusion)

### Rubrics (Total = 10 Marks)

Understanding of Real-Life Concept 2 M

Scientific Explanation (Correct Concepts) 2M

Creativity & Examples Used 2M

Presentation (Neatness, Diagram, Table) 2 M

Application & Original Thinking 2 M

**Note:- While performing the activity, kindly may a short video.**

## SOCIAL SCIENCE

🏠 “RECENT STATE ELECTION REPORT” 🏠

✦ Theme: “Understanding Democracy Through Elections”


### **ACTIVITY:**


Prepare a report on any ONE recently held State Election in India.


### **You may choose:**

- ◆ West Bengal
- ◆ Assam
- ◆ Tamil Nadu
- ◆ Kerala
- ◆ Puducherry (UT)


### **INCLUDE THE FOLLOWING POINTS:**


 Name of the State/UT

 Date/Year of Election


 Major Political Parties Involved


 Name of Winning Party


 Name of Chief Minister

 Main Issues Raised During Elections

(Education, Employment, Roads, Electricity, Water etc.)

 Role of Media and Social Media


 Voter Participation and Awareness


 Importance of Elections in Democracy


### **PREPARE A REPORT WITH:**

- ✓ Introduction
- ✓ Main Findings
- ✓ Conclusion
- ✓ Your Opinion on Free & Fair Elections

### **CREATIVE TASK**

 Paste photographs/newspaper cuttings related to the election

 Draw charts or graphs showing election results

 Mark the state/UT on India political map

### **RUBRICS**

- ✓ Information & Research – 3 Marks
- ✓ Understanding of Democratic Process – 3 Marks
- ✓ Creativity & Presentation – 2 Marks
- ✓ Neatness & Organization – 2 Marks

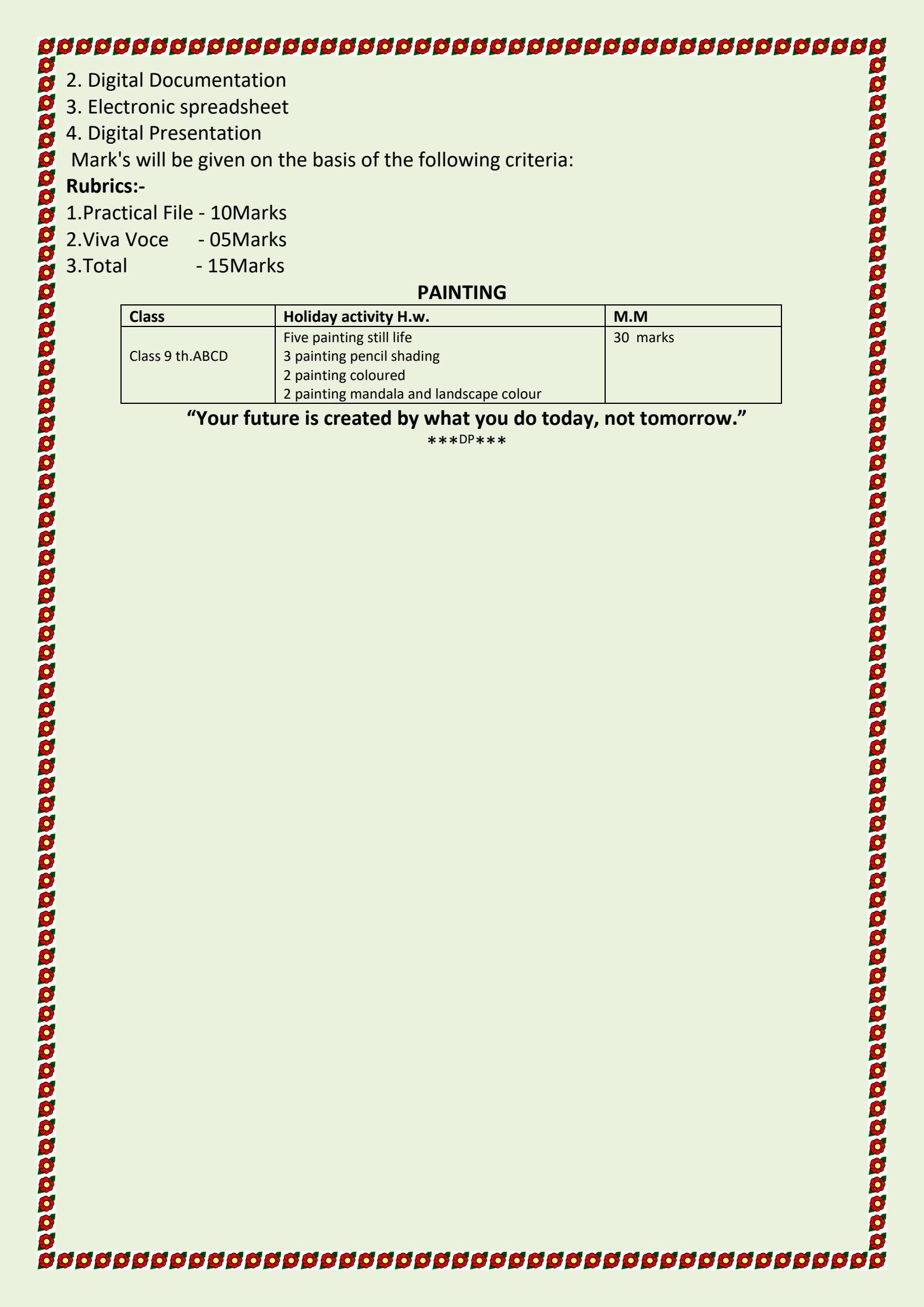
★ **TOTAL = 10 MARKS**

✦ **“ELECTIONS ARE THE FOUNDATION OF DEMOCRACY”** ✦

### **INFORMATION TECHNOLOGY**

Develop a project report on any one topic out of the given following :

1. Data Entry and  
Keyboarding Skills.

- 
2. Digital Documentation
  3. Electronic spreadsheet
  4. Digital Presentation

Mark's will be given on the basis of the following criteria:

**Rubrics:-**

1. Practical File - 10Marks
2. Viva Voce - 05Marks
3. Total - 15Marks

**PAINTING**

<b>Class</b>	<b>Holiday activity H.w.</b>	<b>M.M</b>
Class 9 th.ABCD	Five painting still life 3 painting pencil shading 2 painting coloured 2 painting mandala and landscape colour	30 marks

**“Your future is created by what you do today, not tomorrow.”**

\*\*\*DP\*\*\*