



**MOUNT COLUMBUS SCHOOL**

**DAKSHINPURI, NEW DELHI-62**

**SESSION: 2025-26**

**WINTER VACATION HOLIDAY HOMEWORK**

**CLASS: VIII**

<b>SUBJECT – ENGLISH</b>		
<b>WORKSHEET NO.</b>	<b>TOPICS</b>	<b>PAGE NO.</b>
07	➤ Comparison of Adjectives & Quantifiers	08
08	➤ Tenses	09
09	➤ Tenses	10
10	➤ Punctuation	11
11	➤ Voice: Active & Passive	12
12	➤ Conjunctions	13
13	➤ Comprehension	14
14	➤ Comprehension	15

<b>SUBJECT – HINDI</b>		
<b>कार्यपत्रक संख्या</b>	<b>विषय</b>	<b>पृष्ठ संख्या</b>
6	➤ कारक	7
7	➤ काल	8
8	➤ वाच्य	9
9	➤ वाक्य	10
10	➤ अशुद्ध वाक्यों का संशोधन	11
11	➤ विराम चिह्न	12
14	➤ निबंध लेखन	15

### **पोर्टफोलियो गतिविधियाँ**

1. CBSE Bullet Link: 1.5.1, 1.1.13

अपने राज्य दिल्ली और paired state अंडमान-निकोबार या लक्षद्वीप की किसी एक कला उदाहरण (हस्त कला, शिल्प कला, नृत्य कला, संगीत कला, पाक कला आदि) के 3-3 अंतर और 3-3 समानताएँ तालिका में लिखिए।

2. महिला हॉकी के प्रसिद्ध खिलाड़ियों में से किसी एक का सचित्र प्रोजेक्ट तैयार करना लिखिए।

3. कम से कम 10 पेड़ों के सूखे पत्ते इकट्ठे कर एक अलबम बनाएं जिसमें उसका नाम तथा पेड़ की उपयोगिता लिखी हो।

4. CBSE Bullet Link: 4.2.3, 4.2.4

दो राज्यों तेलंगाना और आंध्र प्रदेश के बीच अपने-अपने राज्यों की संस्कृति को लेकर क्या संवाद हो सकता है लिखिए, दोनों राज्यों को मानचित्र पर अंकित करते हुआ मानचित्र भी लगाएं लिखिए।

5. पोस्टर/स्लोगन: “शांति ही असली विजय है।”-विषय पर आकर्षक पोस्टर/स्लोगन को A3 size sheet पर बनाकर लिखिए।

**(पोर्टफोलियो गतिविधियाँ वही छात्र करेंगे जिन्होंने अभी तक अपना पोर्टफोलियो पूरा नहीं किया।)**

**नोट:-सबसे पहले आप प्रश्न लिखेंगे उसके बाद ही कार्य करेंगे।**

**सम्पूर्ण कार्य एक फाइल फोल्डर में अपने नाम की पर्ची लगाकर ही जमा करें**

### **विषय - संस्कृत**

प्रश्न 1.फलानां दश नामानि संस्कृते लिखत।

प्रश्न 2.शाकानां दश नामानि संस्कृते लिखत।

प्रश्न 3.पञ्चाशतः शतं पर्यन्तं संख्यानि संस्कृते लिखत।

प्रश्न 4.नदी-मातृ-शब्दयोः रूपाणि लिखत।

प्रश्न 5.यात्रा वृत्तांत लेखन - विद्यार्थी संस्कृत में अपनी किसी यात्रा का वर्णन लिखेंगे।

**SUBJECT – MATHEMATICS**

<b>WORKSHEET NO.</b>	<b>TOPICS</b>	<b>PAGE NO.</b>
3	➤ Square & Square root	4
4	➤ Cube & Cube root	5
5	➤ Algebraic Expression	6
6	➤ Factorisation of Algebraic Expression	7
9	➤ Profit and Loss	10
10	➤ Simple Interest & Discount	11
11	➤ Direct & Inverse Variation	12
13	➤ Compound Interest	14
14	➤ Compound Interest	15
16	➤ Area	17
17	➤ Circumference & Area of Circle	18
18	➤ Volume	19
19	➤ Surface Area	20
20		21

**SUBJECT – SCIENCE**

<b>WORKSHEET NO.</b>	<b>TOPICS</b>	<b>PAGE NO.</b>
02	➤ Microorganisms: friends and foe	03
03	➤ Synthetic fibres and plastics	04
04	➤ Metal and non- metals	05
06	➤ Combustion and flame	07
07	➤ Conservation of plants and animals	08
09	➤ Reproduction in animals	10
10	➤ Force and Pressure	11
11	➤ Friction	12
14	➤ Pollution of air and water	15

**SUBJECT – SOCIAL SCIENCE**

<b>WORKSHEET NO.</b>	<b>TOPICS</b>	<b>PAGE NO.</b>
1	➤ History	2
2	➤ History	3
3	➤ Civics	4
6	➤ Geography	7

## **SUBJECT: INFORMATION TECHNOLOGY**

### **PART A: MCQs**

1. Which of the following is an example of system software?  
a) MS Word    b) Windows    c) Paint    d) Browser
2. Which component is known as the brain of the computer?  
a) RAM    b) Hard Disk    c) CPU    d) Monitor
3. Which type of computer memory is temporary?  
a) ROM    b) Hard Disk    c) Pen Drive    d) RAM

### **PART B: SHORT ANSWERS**

1. What is Information Technology?
2. Write any two uses of IT in daily life.
3. Differentiate between hardware and software (any two points).
4. Why is cybersecurity important?

### **PART C: MATCH & LEARN**

Column A	Column B
RAM	a) Permanent memory
ROM	b) Temporary memory
Keyboard	c) Input device
Printer	d) Output device

### **PART D: CREATE & DESIGN -Design Your Own "SMART DIGITAL SCHOOL"**

Draw a Smart School of the Future and label at least 5 IT tools, such as:

- Smart Board
- Computer Lab
- AI Attendance System
- Online Library
- CCTV / Biometric System

Write 4–5 lines explaining how IT helps your smart school.

### **PART E: CREATIVE WRITING**

Imagine you are a Computer / Laptop / Mobile Phone.

Write a short paragraph (5–6 lines) explaining:

- How humans use you
- How they should use you responsibly

### **PART F: MINI PROJECT**

*Topic: IT Around Me*

Choose ANY ONE:

- ◆ A poster on *Uses of IT in Winter Season*
- ◆ A case study: *How IT helps hospitals / banks / schools*
- ◆ A comic strip showing *Safe vs Unsafe Internet Use*  
(Use drawings, colours, or digital tools)

### **📖 REFLECTION CORNER**

What new skill or idea about IT did you learn during this vacation?

# SUBJECT -ARTIFICIAL INTELLIGENCE

## 1: CONCEPT CONNECT (SHORT ANSWERS)

1. What is Artificial Intelligence (AI) in your own words?
2. How is AI different from normal computer programs you use every day?
3. Give three examples where you see AI around you (mobile, websites, games, etc.).
4. Explain “AI in my world” with any two examples from your daily life (home / school / online).
5. What do you understand by “AI for good”? Give one example.
6. Why should people think about ethics (right and wrong) while making AI systems?
7. Name any two careers related to AI. Write one line about what they do.
8. What is “Responsible AI”? Write any two points.

## 2: AI AROUND ME – TABLE TASK

Complete the table with real examples from your life.

(Students should connect each example to a unit: Relate = AI in my world, Purpose = AI for good, Ethics = responsible use.)

Place / Situation	AI Example You See (App / Feature)	What AI Does There (1 line)	Unit Link (Relate / Purpose / Ethics)
At home			
In school			
On the internet / YouTube			
While playing games			
While shopping / ordering			

## 3: AI FOR GOOD – APP / PROJECT ANALYSIS

Choose any ONE real AI tool/project that helps people or the planet.

(Example: health diagnosis AI, language translator for tourists, AI that helps blind people read, AI that finds fake news, etc.)

Write:

- Name of the AI app / project: \_\_\_\_\_
  - Main purpose (What good does it do?): \_\_\_\_\_
1. How does this AI help people or the environment? (2 points)
  2. Who benefits the most from it? (children, patients, farmers, etc.)
  3. One possible risk or problem if it is misused.
  4. One idea to make this AI more responsible and safe.

(Connect to Unit 3 – Purpose and Unit 5 – Ethics.)

## 4: MY FUTURE WITH AI – CAREER & APP DESIGN

### Part A: AI Career Dream Card

Choose one AI-related career (for example: AI Engineer, Data Scientist, Robotics Expert, AI Ethics Officer, AI Product Manager).

Write in 4–5 short lines:

1. Career name: \_\_\_\_\_
2. What does this person mainly do? \_\_\_\_\_
3. Which subjects in school can help you for this career? (Any 2–3)
4. Why does this career look interesting to you?

### Part B: Design an AI Idea for Students

Design a simple AI-based solution that can help students (for studies, mental health, time management, homework, language, etc.).

Write:

- Name of AI solution: \_\_\_\_\_
- Who will use it? (Middle school students, all students, etc.)
- Main purpose in one sentence: \_\_\_\_\_
- List 3 features (connect to “AI for good” and “Responsible AI”):

On an A4 sheet:

- Draw the main screen of your AI idea.
- Show buttons, icons, simple menu, and one area where AI shows suggestions or answers.

## 5: AI ETHICS SCENARIOS

Read the situations and answer in 2–3 lines each.

1. A school uses AI cameras to track attendance and student movement all the time.
  - One useful point: \_\_\_\_\_
  - One ethical concern (privacy / misuse): \_\_\_\_\_
  - What should the school do to be more responsible? \_\_\_\_\_
2. A social media app uses AI to recommend videos. Many students get addicted and waste time.
  - One way this AI is helpful: \_\_\_\_\_
  - One way it can harm students: \_\_\_\_\_
  - One step the company can take to make it safer: \_\_\_\_\_
3. An AI language app collects students’ voices to improve speech recognition.
  - Why might this data be useful? \_\_\_\_\_
  - What should the company do to protect users? (Any 2 points: consent, data protection, no sharing, etc.)

(Connect to Unit 2 – Relate, Unit 3 – Purpose, Unit 5 – Ethics.)