PM SHRI Kendriya Vidyalaya No.1 RCF Hussainpur, Kapurthala

Summer vacations

HOLIDAY HOME WORK

Classes 6th to 12th

🌞 **Holiday Homework Worksheet**
Class: VI
Subject: English
Name: _____
Section: _____
Date: _____
✏️ **Section A: Present Tense**

1. Fill in the blanks with the correct form of verbs (Simple Present):
a) She _____ (go/goes) to school every day.
b) They _____ (play/plays) cricket in the evening.
c) He _____ (eat/eats) an apple daily.
d) We _____ (watch/watches) TV at night.
e) The sun _____ (rise/rises) in the east.

2. Change the sentences into Present Continuous Tense:
a) She writes a letter. → _____
b) They play football. → _____
c) I read a book. → _____
d) He drinks milk. → _____

🔊 **Section B: Homophones**

3. Choose the correct word:
a) I have two/two books.
b) She can write/right very well.
c) The sun/son is shining brightly.
d) I see/sea a bird in the sky.
e) He won/one the race.

4. Make sentences using the following pairs:
a) Flower / Flour
b) Meet / Meat
c) Pair / Pear

🔄 **Section C: Opposite Words (Antonyms)**

5. Write the opposites of the following:
a) Happy → _____
b) Big → _____
c) Fast → _____
d) Hot → _____
e) Day → _____

6. Fill in the blanks with correct opposites:
a) The box is heavy but the bag is _____.
b) The room is clean, not _____.
c) This road is wide, not _____.
d) He is strong, not _____.

🔀 Section D: Rearranging Sentences

7. Rearrange the words to form meaningful sentences:
a) playing / are / children / the / garden / in / the
→ _____
b) school / goes / she / to / daily
→ _____
c) apples / I / like / eating
→ _____
d) is / sky / blue / the
→ _____

8. Arrange the sentences in correct order to form a paragraph:
a) He planted a seed in the soil.
b) After a few days, a small plant grew.
c) Ravi watered it daily.
d) Ravi wanted to grow a plant.
→ Correct Order: _____

🌟 **Bonus Activity**
🎨 **Read 1 page daily and write 5 difficult words with their meanings.**

📖 Reading Comprehension – 1
🌳 Passage 1: The Honest Woodcutter

Once upon a time, there lived a poor woodcutter near a forest. Every day, he went to cut wood and sell it in the market. One day, while cutting a tree near a river, his axe slipped from his hand and fell into the water. The woodcutter became very sad because it was his only axe.
Suddenly, a fairy appeared and asked him why he was crying. He told her the truth. The fairy dived into the river and brought out a golden axe. The woodcutter said it was not his. Then she brought a silver axe, but he refused again. Finally, she brought his iron axe. The woodcutter happily accepted it.
The fairy was pleased with his honesty and rewarded him with all three axes.

❓ MCQs (Choose the correct option):

Where did the woodcutter live?

a) In a city
b) Near a forest
c) On a mountain
d) In a palace

What did he lose?
a) Money
b) Food
c) Axe
d) Bag

Where did the axe fall?
a) In the forest
b) In the river
c) In the house
d) In the market

Who appeared before him?
a) King
b) Friend
c) Fairy
d) Farmer

What was the first axe brought by the fairy?
a) Iron
b) Silver
c) Golden
d) Wooden

Why did he refuse the golden axe?
a) It was heavy
b) It was not his
c) It was broken
d) It was dirty

What was the woodcutter's real axe made of?
a) Gold
b) Silver
c) Iron
d) Steel

What quality did the woodcutter show?
a) Laziness
b) Honesty

c) Anger
d) Pride

What reward did he get?
a) Money
b) Food
c) All three axes
d) A house

What is the moral of the story?
a) Hard work is important
b) Honesty is rewarded
c) Be brave
d) Help others

📖 **Reading Comprehension – 2**
🐜 **Passage 2: The Ant and the Dove**

One hot day, an ant was searching for water. After walking for a long time, she reached a river. To drink water, she climbed onto a small rock. Suddenly, she slipped and fell into the water. She started to drown.
A dove sitting on a tree nearby saw her. The dove quickly plucked a leaf and dropped it into the river. The ant climbed onto the leaf and floated to safety.
A few days later, a hunter came to catch the dove. He aimed his net at her. The ant saw this and quickly bit the hunter's foot. The hunter cried out in pain, and the dove flew away safely.
Thus, the ant repaid the dove's kindness.

❓ **MCQs (Choose the correct option):**

What was the ant searching for?
a) Food
b) Water
c) Shelter
d) Friends

Where did the ant reach?
a) A tree
b) A hill
c) A river
d) A house

What happened to the ant?
a) She slept
b) She fell into water

c) She ran away
d) She climbed a tree

Who helped the ant?
a) A crow
b) A pigeon
c) A dove
d) A sparrow

What did the dove drop?
a) A stick
b) A leaf
c) A stone
d) A feather

How did the ant save herself?
a) By swimming
b) By crying
c) By climbing the leaf
d) By running

Who came to catch the dove?
a) Farmer
b) Hunter
c) Fisherman
d) Woodcutter

What did the ant do to help the dove?
a) Shouted loudly
b) Bit the hunter
c) Flew away
d) Threw a stone

What happened to the hunter?
a) He ran away
b) He caught the dove
c) He cried in pain
d) He fell asleep

What is the moral of the story?
a) Kindness is always repaid
b) Work hard
c) Be strong
d) Stay quiet

3. MDP ON THE TOPIC
MY STATE / MY CULTURE 10 marks

📊 Rubrics (2 Marks Each)

1. 🗺️ Content Knowledge (2 Marks)

2 Marks: Shows clear and accurate knowledge about the state (location, culture, traditions, food, etc.)

1 Mark: Shows basic knowledge with some missing details

0 Marks: Very little or incorrect information

2. 🎤 Presentation Skills (2 Marks)

2 Marks: Speaks clearly with confidence and proper expression

1 Mark: Speaks with some hesitation or unclear voice

0 Marks: Unable to present properly

3. 🎨 Creativity & Effort (2 Marks)

2 Marks: Project is neat, colorful, and shows creativity (drawings, decoration, ideas)

1 Mark: Some effort shown but lacks creativity

0 Marks: Very little effort or incomplete work

4. 🧠 Understanding of Culture (2 Marks)

2 Marks: Clearly explains cultural aspects like festivals, dress, language, and traditions

1 Mark: Mentions some cultural points but lacks explanation

0 Marks: Does not show understanding

5. 📋 Organization & Neatness (2 Marks)

2 Marks: Well-organized, neat, and properly structured work

1 Mark: Somewhat organized but needs improvement

0 Marks: Untidy and poorly arranged

4. 10 page of Handwriting

PM SHRI Kendriya Vidyalaya NO.1 RCF Hussainpur

Summer Holiday Assignment (Summer Vocation)
Class 6
Subject - Vocational Education
Session 2026-27

Questions:

Q1. Identify Tools and Materials:
Identify common tools and materials used for cultivating plants in a kitchen garden. Draw each tool and material. Write their names and uses. (On A3 Sheets)
Q2. Plant Care and Maintenance:
Write the steps for taking care of plants, including watering, soil preparation, and pest control. Add diagrams or drawings to explain the steps better.
Q3. Visit to the Vegetable Market:
Visit your local vegetable market. Create a list of vegetables you see and note down their names and prices. Present the list in a tabular format in your VE notebook.

PROJECT WORK:

1. Ice Cream Stick Craft:
Using ice cream sticks, create models of various shapes like a plane, house, pen stand, bridge, car, kitchen garden, ladder, or decorative items.
Paint and decorate your models creatively.
Submission Guidelines:
1. Complete all tasks in your VE notebook.
2. For project work, take pictures of the process and submit them along with your completed models.



Holidays home work Worksheet (ੳ ਤੋਂ ਲ਼ ਤੱਕ)

🖍️ ਕਲਾਸ-sixth: ਅੱਖਰ ਲਿਖੋ (Write Practice)

ਹਰ ਅੱਖਰ 5 ਵਾਰ ਲਿਖੋ:

ੳ ___ ___ ___ ___ ___

ਅ ___ ___ ___ ___ ___

ੲ ___ ___ ___ ___ ___

ਸ ___ ___ ___ ___ ___

ਹ ___ ___ ___ ___ ___

ਕ ___ ___ ___ ___ ___

ਖ ___ ___ ___ ___ ___

ਗ ___ ___ ___ ___ ___

ਘ ___ ___ ___ ___ ___

ਙ ___ ___ ___ ___ ___

ਚ ___ ___ ___ ___ ___

ਛ ___ ___ ___ ___ ___

ਜ ___ ___ ___ ___ ___

ਝ ___ ___ ___ ___ ___

ਞ ___ ___ ___ ___ ___

ਟ ___ ___ ___ ___ ___

ਠ ___ ___ ___ ___ ___

ਡ ___ ___ ___ ___ ___

ਢ ___ ___ ___ ___ ___

ਣ ___ ___ ___ ___ ___

ਤ ___ ___ ___ ___ ___

ਥ ___ ___ ___ ___ ___

ਦ ___ ___ ___ ___ ___

ਧ ___ ___ ___ ___ ___

ਨ ___ ___ ___ ___ ___

ਪ ___ ___ ___ ___ ___

ਫ ___ ___ ___ ___ ___

ਬ ___ ___ ___ ___ ___

ਭ ___ ___ ___ ___ ___

ਮ ___ ___ ___ ___ ___

ਯ ___ ___ ___ ___ ___

ਰ ___ ___ ___ ___ ___

ਲ ___ ___ ___ ___ ___

ਵ ___ ___ ___ ___ ___

ੜ ___ ___ ___ ___ ___

ਸ਼ ___ ___ ___ ___ ___

ਖ਼ ___ ___ ___ ___ ___

ਗ਼ ___ ___ ___ ___ ___

ਜ਼ ___ ___ ___ ___ ___

ਫ਼ ___ ___ ___ ___ ___

ਲ਼ ___ ___ ___ ___ ___

🧠 Part 2: ਮਿਲਾਓ (Match the Following)

ਉ → ਅੰਬ

ਕ → ਕਿਤਾਬ

ਗ → ਗਮਲਾ

ਚ → ਚਿੜੀ

ਟ → ਟਮਾਟਰ

ਪ → ਪਤੰਗ

Part:3

ਹੇਠਾਂ ਦਿੱਤੇ ਅੱਖਰਾਂ ਨਾਲ ਸੰਬੰਧਿਤ ਚੀਜ਼ਾਂ ਦਾ ਚਿੱਤਰ ਬਣਾਓ ਅਤੇ ਰੰਗ ਭਰੋ|

ਕ – 🪁 ਪਤੰਗ

ਗ – 🌼 ਫੁੱਲ

ਚ – 🐓 ਚਿੜੀ

ਟ – 🍅 ਟਮਾਟਰ

ਪ – 🥭 ਅੰਬ

🖍️ Part 4:

👉 ਇੱਕ ਵੱਡਾ ਚਾਰਟ ਬਣਾਓ:

Title: "Punjabi Varnmala (ਉ ਤੋਂ ਲ਼ ਤੱਕ)"

ਹਰ ਅੱਖਰ ਲਿਖੋ (ਉ ਤੋਂ ਲ਼)

ਹਰ ਅੱਖਰ ਦੇ ਨਾਲ ਇੱਕ ਚਿੱਤਰ ਬਣਾਓ:

ਕ – ਕਿਤਾਬ 📘

ਗ – ਗਮਲਾ 🪴

ਚ – ਚਿੜੀ 🐓

ਟ – ਟਮਾਟਰ 🍅

ਪ – ਪਤੰਗ 🪁

ਮ – ਮੱਛੀ 🐟

🎨 ਚਾਰਟ ਨੂੰ ਰੰਗਾਂ ਨਾਲ ਸੋਹਣਾ ਬਣਾਓ|

ਦੋ ਅੱਖਰਾਂ ਵਾਲੇ ਸ਼ਬਦ 5 ਵਾਰ ਲਿਖੋ

ਤਿੰਨ ਅੱਖਰਾਂ ਵਾਲੇ ਸ਼ਬਦ 5ਵਾਰ ਲਿਖੋ

Write all holidays home work on fair note book.
Learn all work that done on note book.

HOLIDAY'S HOME WORK

SUBJECT- MATHS

CLASS-VI

Page no.	Heading	Question Number
3		Prepare table -1
5	Figure it out	1,2,3,4
8	Figure it out	1,2,3,4.5.6,7
11	Figure it out	1,2,4
16	Figure it out	1,2,3,4,5,6

Learn tables from 1 to 20.

PM SHRI KENDRIYA VIDYALAYA NO1 RCF HUSSAINPUR

🌿 HOLIDAY HOMEWORK (MDP)

Class: VI

Topic: Health, Nutrition and Yoga for a Healthy Life

📌 GENERAL INSTRUCTIONS

Prepare a 20– 30 page project file

Include index, headings, diagrams, graphs, and pictures

*Write in your own words (no copying)

*Maintain neat handwriting and presentation

*Attach real-life observation

📑 INDEX (Page 1)

Make an index with page numbers of all sections

📝 1. INTRODUCTION (English – 1 page)

Define Health (Physical, Mental, Social)

What is Yoga?

Why is yoga important in today’ s busy life?

Write about your own lifestyle (diet, sleep, activity)

🔬 2. SCIENCE (4– 5 pages)

(a) Balanced Diet

Explain nutrients:

Carbohydrates

Proteins

Fats

Vitamins

Minerals

👉 Make a table:

Nutrient

Function

Sources (Veg)

(b) Deficiency Diseases

Explain causes + symptoms:

Anemia

Rickets

Beriberi

(c) Yoga&Body Systems

Explain how yoga affects:

Respiratory system

Circulatory system

Nervous system

(d) Experiment

Aim: Effect of yoga on pulse rate

Time

Pulse Rate

Before Yoga

____

After Yoga

____

👉 Write conclusion

🌍 3. SOCIAL SCIENCE (3 pages)

Origin of yoga in India

Contribution of Patanjali

Importance of International Day of Yoga

Yoga as India’ s gift to the world

Role of yoga in modern society

➗ 4. MATHEMATICS (3 pages)

(a) Data Collection

Record yoga time for 7 days:

Day

Minutes

(b) Calculations

Total time

Average time

(c) Graph

Draw bar graph

(d) Advanced

Make a pie chart of your daily routine

Calculate percentages

🧠 5. ENGLISH (3 pages)

Essay (150 words): “Yoga: A Way to Healthy Living”

5 slogans

Poem (4– 6 lines)

Story (150 words): “A Day Without Health”

🇮🇳 6. HINDI (2 pages)

विषय: स्वस्थ जीवन में योग का महत्व

10 पंक्तियाँ लिखिए

5 नारे लिखिए

चित्र वर्णन (योग करते हुए व्यक्ति)

🕉️ 7.SANSKRIT

योग पर 5 वाक्य लिखिए

“योगस्य महत्वम्” पर लघु अनुच्छेद लिखिए

5 शब्दों के अर्थ लिखिए (योगः, स्वास्थ्य, शरीरम्, मनः, बलम्)

Translate:

Yoga keeps us healthy

We should do yoga daily

🎨 8. ART & CRAFT (2– 3 pages)

Draw and label 4 yoga poses

Make a poster: “Stay Healthy, Do Yoga Daily”

Create a collage (cuttings from magazines)

🏃‍♀️ 9. PHYSICAL EDUCATION (Practical Work)

Practice for 7 days:

Tadasana

Vrikshasana

Bhujangasana

Anulom Vilom

👉 Maintain Yoga Diary:

Day

Time

Poses

Experience

🍎 10. DIET PLANNING (Applied Learning)

Prepare a 1-day healthy vegetarian diet plan:

Breakfast

Lunch

Dinner

Snacks

👉 Mention nutrients in each

🧘 11. YOGA RESEARCH

Meaning of Yoga

Types of yoga (Hatha, Pranayama, Meditation)

Benefits of meditation

📊 12. CASE STUDY (Higher Thinking)

Observe one family member:

Daily routine

Eating habits

Physical activity

👉 Answer:

Are they healthy?

What improvements are needed?

Suggest yoga routine

🎤 13. INTERVIEW ACTIVITY

Ask any elder:

Do you practice yoga?

Benefits experienced?

👉 Write answers in Q/A format

🌍 14. SOCIAL AWARENESS

Effects of unhealthy lifestyle

Role of yoga in stress (exams, tension)

Give real-life examples

🧠 15. VALUE-BASED QUESTIONS

Why is mental health important?

Can yoga replace medicine? Why/why not?

Chapter: 1 Introduction to AI and Everyday Examples

Exercise

A. Multiple Choice Questions.

1. What is labelled data?
   a) Data without any tags b) Data with predefined labels or tags
   c) Random data d) Incorrect data
2. Who introduced the Turing Test?
   a) John McCarthy b) Alan Turing
   c) Charles Babbage d) Isaac Newton
3. In supervised learning, data is:
   a) Unlabelled b) Random
   c) Labelled d) Deleted
4. Predicting exam marks based on the trained data uses:
   a) Supervised Learning b) Unsupervised Learning
   c) Reinforcement Learning d) All of the above
5. Which of the following is not AI?
   a) Voice assistant b) Face recognition
   c) Traditional traffic signal d) Smart chatbot

B. Fill in the blanks.

1. Intelligence includes the ability to learn and _____ problems.
2. AI is a technique to make intelligent_____.
3. Automation works on fixed _____ and preset instructions.
4. Unsupervised learning is mainly used for _____.
5. Machine Learning allows machines to learn from _____.

C. Short answer questions.

1. Define intelligence in your own words.
2. State two differences between automation and AI.
3. What is reinforcement learning?
4. Name the three types of Machine Learning.
5. Give two examples of AI used in daily life.

D. Think and apply.

Identify the Type of Machine Learning

Scenario	Type of Learning
Grouping customers based on shopping habits without labels	
Predicting house prices based on past labelled data	
A game AI improving after winning or losing	
Sorting emails into spam and not spam	

E. Classify the following as AI or Automation.

Example	AI or Automation?
Traffic light changing at fixed intervals	
Face recognition system	
Washing machine with preset timer	
Voice assistant answering questions	

Solutions

A. Multiple Choice Questions.

1. b) Data with predefined labels or tags
2. b) Alan Turing
3. c) Labelled
4. a) Supervised Learning
5. c) Traditional traffic signal

B. Fill in the blanks.

1. solve
2. machines
3. rules
4. clustering
5. data

C. Short answer questions.

1. Intelligence is the ability to learn, think, understand and solve problems.
2. Two differences between automation and AI:
   i. Automation follows fixed rules, AI learns from data
   ii. Automation gives same output, AI can change output
3. Reinforcement learning is a type of learning where machines learn using rewards and penalties.
4. Three types of Machine Learning:
   i. Supervised learning
   ii. Unsupervised learning
   iii. Reinforcement learning
5. Two AI examples:
   i. Voice assistants
   ii. Face recognition

D. Think and apply.

Scenario	Type of Learning
Grouping customers based on shopping habits without labels	Unsupervised Learning
Predicting house prices based on past labelled data	Supervised Learning
A game AI improving after winning or losing	Reinforcement Learning
Sorting emails into spam and not spam	Supervised Learning

E. Classify the following as AI or Automation.

Example	AI or Automation?
Traffic light changing at fixed intervals	Automation
Face recognition system	AI
Washing machine with preset timer	Automation
Voice assistant answering questions	AI

Chapter 2: Basic Data Concepts

Exercise

A. Multiple Choice Questions.

1. A teacher analyses last year's exam results to improve teaching methods. This is an example of:
   a) Guesswork b) Using data for decision-making
   c) Random selection d) Entertainment
2. A fitness app counts your daily steps and shows weekly progress. What type of data is mainly collected?
   a) Image data b) Text data
   c) Numerical data d) Sound data
3. A weather app predicts rain using satellite information. This shows that data helps in:
   a) Playing games b) Making future predictions
   c) Writing stories d) Sending messages
4. A security camera records activities at the school gate. What type of data is mainly collected?
   a) Text data b) Video data
   c) Image data d) Numerical data
5. Which of the following is an example of image data?
   a) Your name b) Your address
   c) Your age d) Your photograph

B. Fill in the blanks.

1. Data means raw_____ and figures.
2. Tables arrange data in rows and _____.
3. Text data is made up of letters, words, and _____.
4. Grouping similar kinds of data is called _____.
5. Saving data in secure systems is known as_____.

C. Short answer questions.

1. What is data?
2. State any two important aspects of data in daily life.
3. Name the four main types of data.
4. What is the difference between a table and a chart?
5. Define classification and labeling in organising data.

D. Think and apply.

1. A student measures the height of a plant every week. What type of data is being collected?
2. A teacher wants to compare the marks of students clearly. Should she use a table or a bar chart? Give one reason.
3. A shopping app suggests products based on your previous searches. How is data being used in this situation?
4. Your desktop has many mixed files with random names.

E. Classify the following as AI or Automation.

Example	Type of Data
Exam Marks	
A voice message	
School ID photo	
Your home address	
Number of students in the class	

Solutions

A. Multiple Choice Questions.

1. b) Using data for decision-making
2. c) Numerical data
3. b) Making future predictions
4. b) Video data
5. d) Your photograph

B. Fill in the blanks.

1. facts
2. columns
3. sentences
4. classification
5. storage

C. Short answer questions.

1. Data is raw information that can be processed to get useful information.
2. Two importance of data:
   i. Helps in decision making
   ii. Helps in business growth
3. Four types of data:
   i. Numerical
   ii. Text
   iii. Image
   iv. Sound
4. Table vs Chart
   Table → rows and columns
   Chart → graphical representation
5. Classification: grouping similar data
   Labelling: giving proper names to data

D. Think and apply.

1. Numerical data
2. Bar chart, Reason: easier comparison
3. Data used to give recommendations
4. Organising data into folders

E. Classify the following as AI or Automation.

Example	Type of Data
Exam Marks	Numerical
A voice message	Sound
School ID photo	Image
Your home address	Text
Number of students in the class	Numerical



संस्कृतम् कक्षा = षष्ठम् (6वीं)

ग्रीष्मकालीन अवकाश कार्यम्

1. प्रथम पाठ का प्रथम प्रश्न करे । (चित्र बनाकर नाम भी लिखिए)
2. शरीर के अंगों के नाम लिखिए और याद करें चित्र भी बनाए। (कोई 10)
3. संख्यावाची शब्द लिखिए और याद करिए । (1 से 20 तक)
4. आत्म परिचय लिखिए और याद करिए ।
5. **परियोजना कार्यम् :-** रंगों के नाम लिखिए और याद करिए। (चित्र बनाकर रंग भरे)

नोट:- **संस्कृत की कापी पर ही काम करें।**

पीएम श्री केन्द्रीय विद्यालय क्र.1 रेल डिब्बा कारखाना ,हुसैनपुर
ग्रीष्मकालीन अवकाश गृहकार्य
दिनाँक- 08.05.2026 से 16.06.2026
कक्षा - 6
विषय - हिन्दी

1.मेरा राज्य, मेरी संस्कृति विषय पर एम डी पी बनाएं।

उपविषय - खानपान, नृत्य शैली, वेशभूषा,तीर्थ और पर्यटन स्थल, त्योहार, भाषा आदि

2. सुलेख लेखन 15 पेज।

3. । 1. निम्नलिखित विषय पर 100 शब्दों में अनुच्छेद लिखिए-

(1) स्वतंत्रता दिवस (15 अगस्त) (2) पर्यावरण प्रदूषण

(3) मेरा प्रिय त्योहार-होली (4) विश्व योग दिवस का महत्त्व (21 जून)

प्रश्न 4.अपने मित्र को नववर्ष की बधाई देते हुए एक बधाई-पत्र लिखिए।

प्रश्न 5. विद्यालय को पहले से सुंदर और अनुशासित बनाने हेतु विद्यालय के प्राचार्य को धन्यवाद पत्र लिखिए।

प्रश्न 6.निम्नलिखित शब्दों के तीन-तीन पर्यायवाची शब्द लिखिए-

सूर्य, पृथ्वी, समुद्र, राजा, फूल, पहाड़, अमृत, आकाश, अग्नि, गणेश, मित्र, वृक्ष, चंद्रमा, दिन, रात

SUBJECT – MATHEMATICS SUMMER VACATION HOMEWORK – 2026 CLASS - VI

Ist Week

1. Fill in the blanks in the given pattern :
   (i) 2,4,6,8, ……. ,…….. ,……. .
   (ii) 3,5,7,9, ……. , …….. ,……. .
   (iii) 1,3,6,10, …….. , …….. , ……. .
   (iv) 1,4,9,16 ,…… , ……. , …….. .
   (v) 1,2,3,5,8, ……. ,…….. ,……. .
   (vi) 1,3,9,27, …… , …….. , …….. .
2. Expand the following pattern up to 10 numbers
   (a) 1= 1
   (b) 1 + 3 = 4
   (c) 1 + 3 + 5 = 9
   (d) ……..
   (e) ……..
   (f) ……..
   (g) ……..
   (h) ……..
   (i) ……..

IInd Week

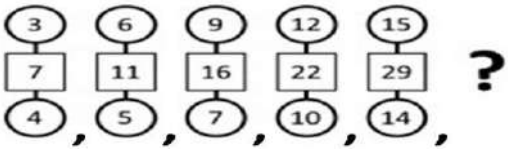
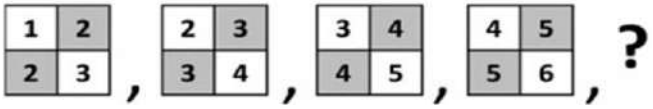
3. Expand the following pattern up to 15numbers :
   (a) 1 = 1
   (b) 1+2+1 = 4
   (c) 1+2+3+2+1 =9
   (d) ……..
   (e) ……..
   (f) ……..
   (j) ……..
   (k) ……..
   (g) ……..
   (h) ……..
4. Define the following : (a)Natural number (b) Whole number (c) Even number (d) Odd number (e) Prime number (f) Composite number (g) Triangular number (h) RegularPolygon (i) Virahanka number

5 . Complete the following table for polygon

Number of Sides	Name of regular polygon	Measure of each interior angle	Fig. of polygon
3 Sides			
4 Sides			
5 Sides			
6 Sides			
7 Sides			
8 Sides			

IIIrd Week

6. Compare using > = < :
   (a) 34872 ___ 34900 (b) 87945 ___ 78945 (c) 724582 ___ 88899 (d) 206006 ___ 116116
   (e) 846470 ___ 847740 (f) 42358 ___ 423580 (g) 304560_____ 345269 (h) 3045 ___ 3321
   (i) 97542 ____95724
7. Arrange the given numbers in ascending order.
   (a) 58,992; 59,228; 8,59,992; 1,54,992
   (b) 7,96,441; 8,96,441; 7,99,641; 8,59,821
   (c) 6,89,774; 6,78,940; 7,18,444; 5,68,710
   (d) 3,80,751; 3,36,547; 3,98,694; 3,26,880

	(e) 5,56,442; 5,26,452; 5,95,442; 5,34,561 8. Arrange the given numbers in descending order. (a) 71, 800; 40,875; 72,984; 6,98,504 (b) 8,63,019; 8,60,548; 8,65,881; 8,59,004 (c) 6,30,062; 1,63,050; 8,39,035; 5,69,204 (d) 3,80,651; 3,37,547; 3,90,694; 3,36,880 (e) 8,56,422; 8,26,452; 8,95,442; 8,34,561 9. Use the given digits without repetition and make the greatest and smallest numbers. (a) 2, 8, 7, 4 (b) 9, 7, 4, 1 (c) 4, 7, 5, 0 (d) 1, 7, 6, 2 (e) 5, 4, 0, 3 (f) 3, 5, 8, 0, 1
IVthWeek	10. Rewrite the following numbers placing comma (,) as per the Indian system: (i) 645367 (ii) 50301268 (iii) 436405 (iv) 3268431 (v) 2414360 11. Write the following in figures. (i) Six million, four hundred and eleven thousand, two hundred and sixty (ii) Sixty-five million, one hundred and sixteen thousand, five hundred and five (iii) Six hundred thousand, two hundred and fifteen (iv) One hundred and sixteen million, One hundred and ten thousand, and thirty-nine (v) Fifty-five million, four hundred and sixty thousand, nine hundred and two 12 . Make two magic squares with the help of numbers.
Vth Week	1 3. The following series follows a fixed pattern: 2, 3, 3, 4, 4, 4, 5, 5, 5, 5, 6, … If the pattern continues, determine how many times the number 9 appears in the NEXT 20 terms. 14. What will come in place of "?" in the given series?  15. What will come in place of "?" in the given series? 
VIth Week	16. Make a Rangoli (Geometry art project) with the help of shapes, lines and angles. 17. Draw a map of your Dream House and colour it.

HOLIDAY HOMEWORK
SUMMER VACATION (03.05.2026 to 20.06.2026)
CLASS – VI
SOCIAL SCIENCE

1. **Map work**
   - **(i) Label and locate states and union territories on India Map and paste in your notebook.**
   - **(ii) Label and locate Continents and Oceans on World Map and paste in your notebook.**
2. **What is a Map? What are the different types of Maps? Explain.**
3. **Write about a tourist place of India which you like the most.**
4. **What are the three components of Maps? Explain with examples.**
5. **What are the Latitudes and Longitudes. Explain with diagram.**
6. **Write about them-**

   (i) Geologists (ii) Palaeontologists (iii) Anthropologists (iv) Archaeologists.
7. **Delhi's and Bengaluru's latitudes are 29°N and 13°N; their longitudes are almost the same, 77°E. How much will be the difference in local time between the two cities? the name of India's neighboring nations.**
8. **Write the names of all the states and union territories of India and their capitals.**
9. **Write about the fundamental rights and duties of Indian citizens given by the Indian Constitution.**
10. **Write about on a local historical place nearby you.**
11. **What are the sources of History? Make a diagram of Sources of History. (Textbook Page no. 67)**
12. **Complete your Social Science MDP work. (Healthy Food and Nutrition)**

🌞 **Holiday Homework Worksheet**
Class: VI
Subject: English
Name: _____
Section: _____
Date: _____
✏️ **Section A: Present Tense**

1. Fill in the blanks with the correct form of verbs (Simple Present):
a) She _____ (go/goes) to school every day.
b) They _____ (play/plays) cricket in the evening.
c) He _____ (eat/eats) an apple daily.
d) We _____ (watch/watches) TV at night.
e) The sun _____ (rise/rises) in the east.

2. Change the sentences into Present Continuous Tense:
a) She writes a letter. → _____
b) They play football. → _____
c) I read a book. → _____
d) He drinks milk. → _____

🔊 **Section B: Homophones**

3. Choose the correct word:
a) I have two/two books.
b) She can write/right very well.
c) The sun/son is shining brightly.
d) I see/sea a bird in the sky.
e) He won/one the race.

4. Make sentences using the following pairs:
a) Flower / Flour
b) Meet / Meat
c) Pair / Pear

🔄 **Section C: Opposite Words (Antonyms)**

5. Write the opposites of the following:
a) Happy → _____
b) Big → _____
c) Fast → _____
d) Hot → _____
e) Day → _____

6. Fill in the blanks with correct opposites:
a) The box is heavy but the bag is _____.
b) The room is clean, not _____.
c) This road is wide, not _____.
d) He is strong, not _____.

🔀 Section D: Rearranging Sentences

7. Rearrange the words to form meaningful sentences:
a) playing / are / children / the / garden / in / the
→ _____
b) school / goes / she / to / daily
→ _____
c) apples / I / like / eating
→ _____
d) is / sky / blue / the
→ _____

8. Arrange the sentences in correct order to form a paragraph:
a) He planted a seed in the soil.
b) After a few days, a small plant grew.
c) Ravi watered it daily.
d) Ravi wanted to grow a plant.
→ Correct Order: _____

🌟 **Bonus Activity**
🎨 **Read 1 page daily and write 5 difficult words with their meanings.**

📖 Reading Comprehension – 1
🌳 Passage 1: The Honest Woodcutter

Once upon a time, there lived a poor woodcutter near a forest. Every day, he went to cut wood and sell it in the market. One day, while cutting a tree near a river, his axe slipped from his hand and fell into the water. The woodcutter became very sad because it was his only axe.
Suddenly, a fairy appeared and asked him why he was crying. He told her the truth. The fairy dived into the river and brought out a golden axe. The woodcutter said it was not his. Then she brought a silver axe, but he refused again. Finally, she brought his iron axe. The woodcutter happily accepted it.
The fairy was pleased with his honesty and rewarded him with all three axes.

❓ MCQs (Choose the correct option):

Where did the woodcutter live?

a) In a city
b) Near a forest
c) On a mountain
d) In a palace

What did he lose?
a) Money
b) Food
c) Axe
d) Bag

Where did the axe fall?
a) In the forest
b) In the river
c) In the house
d) In the market

Who appeared before him?
a) King
b) Friend
c) Fairy
d) Farmer

What was the first axe brought by the fairy?
a) Iron
b) Silver
c) Golden
d) Wooden

Why did he refuse the golden axe?
a) It was heavy
b) It was not his
c) It was broken
d) It was dirty

What was the woodcutter's real axe made of?
a) Gold
b) Silver
c) Iron
d) Steel

What quality did the woodcutter show?
a) Laziness
b) Honesty

c) Anger
d) Pride

What reward did he get?
a) Money
b) Food
c) All three axes
d) A house

What is the moral of the story?
a) Hard work is important
b) Honesty is rewarded
c) Be brave
d) Help others

📖 **Reading Comprehension – 2**
🐜 **Passage 2: The Ant and the Dove**

One hot day, an ant was searching for water. After walking for a long time, she reached a river. To drink water, she climbed onto a small rock. Suddenly, she slipped and fell into the water. She started to drown.
A dove sitting on a tree nearby saw her. The dove quickly plucked a leaf and dropped it into the river. The ant climbed onto the leaf and floated to safety.
A few days later, a hunter came to catch the dove. He aimed his net at her. The ant saw this and quickly bit the hunter's foot. The hunter cried out in pain, and the dove flew away safely.
Thus, the ant repaid the dove's kindness.

❓ **MCQs (Choose the correct option):**

What was the ant searching for?
a) Food
b) Water
c) Shelter
d) Friends

Where did the ant reach?
a) A tree
b) A hill
c) A river
d) A house

What happened to the ant?
a) She slept
b) She fell into water

c) She ran away
d) She climbed a tree

Who helped the ant?
a) A crow
b) A pigeon
c) A dove
d) A sparrow

What did the dove drop?
a) A stick
b) A leaf
c) A stone
d) A feather

How did the ant save herself?
a) By swimming
b) By crying
c) By climbing the leaf
d) By running

Who came to catch the dove?
a) Farmer
b) Hunter
c) Fisherman
d) Woodcutter

What did the ant do to help the dove?
a) Shouted loudly
b) Bit the hunter
c) Flew away
d) Threw a stone

What happened to the hunter?
a) He ran away
b) He caught the dove
c) He cried in pain
d) He fell asleep

What is the moral of the story?
a) Kindness is always repaid
b) Work hard
c) Be strong
d) Stay quiet

3. MDP ON THE TOPIC
MY STATE / MY CULTURE 10 marks

📊 Rubrics (2 Marks Each)

1. 🗺️ Content Knowledge (2 Marks)

2 Marks: Shows clear and accurate knowledge about the state (location, culture, traditions, food, etc.)

1 Mark: Shows basic knowledge with some missing details

0 Marks: Very little or incorrect information

2. 🎤 Presentation Skills (2 Marks)

2 Marks: Speaks clearly with confidence and proper expression

1 Mark: Speaks with some hesitation or unclear voice

0 Marks: Unable to present properly

3. 🎨 Creativity & Effort (2 Marks)

2 Marks: Project is neat, colorful, and shows creativity (drawings, decoration, ideas)

1 Mark: Some effort shown but lacks creativity

0 Marks: Very little effort or incomplete work

4. 🧠 Understanding of Culture (2 Marks)

2 Marks: Clearly explains cultural aspects like festivals, dress, language, and traditions

1 Mark: Mentions some cultural points but lacks explanation

0 Marks: Does not show understanding

5. 📋 Organization & Neatness (2 Marks)

2 Marks: Well-organized, neat, and properly structured work

1 Mark: Somewhat organized but needs improvement

0 Marks: Untidy and poorly arranged

4. 10 page of Handwriting

HOLIDAY'S HOME WORK

SUBJECT- MATHS

CLASS-VII

Page No.	Heading	Questions
5	Figure it out	1,2,3,4,5(all parts)
6	Figure it out	1(a,b,c,d,e)2.(a,b)
9	Figure it out	1,2,3(all parts)
14	Figure it out	1,2 all parts.
19	Figure it out	1,2,3,4,5.6.7,8,9,10,11,12,13,14.

Learn tables from 2 to 25.

Maths makes your mind sharp and your future bright!

CLASS 7 – MATHEMATICS

SUMMER HOLIDAY HOMEWORK

MAY – JUNE 2026

Think • Practice • Solve • Excel!

MATHS
LOGIC
LEARN
GROW

SECTION A – NUMBER SYSTEM

1. Task 1: Number Exploration

Write any 10 numbers (up to 10,00,000).

For each number:

- Write number name
- Write expanded form
- Find place value of any one digit

Number	Number Name
2,45,678	Two lakh forty five thousand six hundred seventy eight
2,00,000 + 40,000 + 5,000 + 600 + 70 + 8	
Place value of 6 = 600	

2. Task 2: Integers

Represent integers on number line.

-3 -2 -1 0 1 2 3

Solve:

- Addition of integers
- Subtraction of integers

3. Task 3: Fractions & Decimals

Solve:

- Addition and subtraction of fractions
- Conversion between fractions and decimals

SECTION B – OPERATIONS

4. Task 4: Rational Numbers

Perform operations:

- Addition
- Subtraction
- Multiplication

$\frac{3}{4} + \frac{2}{5} = \frac{23}{20}$

$\frac{7}{6} - \frac{1}{3} = \frac{5}{6}$

$\frac{2}{3} \times \frac{3}{5} = \frac{2}{5}$

5. Task 5: Simplification

Solve expressions using BODMAS.

$24 \div 3 + 5 \times 2 - 4$
$= 8 + 10 - 4$
$= 14$

SECTION C – ALGEBRA

6. Task 6: Algebraic Expressions

Write and simplify algebraic expressions.

Example: $3x + 5x - 2x + 7$

7. Task 7: Simple Equations

Solve linear equations.

Example: $2x + 5 = 19$

$x = ?$

2x+5 | 19

SECTION D – GEOMETRY

8. Task 8: Lines & Angles

Draw and label:

- Complementary angles
- Supplementary angles

60° 30° — Complementary

120° 60° — Supplementary

9. Task 9: Triangles

Draw different types of triangles and write their properties.

Equilateral (All sides equal) | Isosceles (Two sides equal) | Scalene (All sides different)

SECTION E – DATA HANDLING

10. Task 10: Data Collection

Collect data from your family (e.g., favourite fruits).

Represent the data using a Bar Graph.

Fruit	No. of Family Members
Mango	5
Apple	3
Banana	4
Orange	2



SECTION F – REAL LIFE MATHS

11. Task 11: Shopping Activity

Prepare a bill of 6 items.

Calculate:

- Total cost
- Discount (if any)

Item	Price (₹)
Notebook	40
Pen	20
Pencil	10
Eraser	10
Sharpener	10
Ruler	20
Total	₹110
Discount	10%
Payable Amount	₹99

12. Task 12: Budget Planning

Plan a weekly budget.

SECTION G – THINKING SKILLS

13. Task 13: Word Problems

Solve real-life based problems.

Example:

A shopkeeper buys 12 pens for ₹120 and sells them at ₹12 each.

Find his profit or loss.

14. Task 14: Puzzles

Solve number puzzles.

Create your own puzzle.

2	7	6
9	5	1
4	3	?

SECTION H – PROJECT WORK

15. Task 15: Maths Scrapbook

Make a scrapbook including:

- Algebra
- Fractions
- Graphs

Algebra $x + 2 = 6$ | Fractions $\frac{1}{2} + \frac{1}{4}$ | Graphs

16. Task 16: Maths Around Me

Observe and write:

- Use of maths in daily life
- Shapes around you

SUBMISSION GUIDELINES

- ☑ Maintain a neat and well-organized notebook/file
- ☑ Show proper steps in solutions
- ☑ Use diagrams, colours and creativity
- ☑ Practice regularly
- ☑ Submit after holidays

WHY THIS HOMEWORK IS SPECIAL

- Builds strong mathematical foundation
- Improves logical reasoning
- Applies maths practically
- Makes learning meaningful and enjoyable!

Scanned with OKEN Scanner

PM SHRI Kendriya Vidyalaya No. RCF Hussainpur

Holiday Assignment (Summer Vocation)

Class 7

Subject - Vocational Education

Session -2026-27



Projects:

1. Recycled Plastic Bottle Craft:

Create a craft model using a recycled plastic bottle under your parents' supervision. Decorate and make it functional, such as a plant pot, bird feeder, or pencil holder.

2. Making bird house with unused material .

Submission Guidelines:

2. For project work, take pictures of the process and final outcomes. Submit these along with your notebook.



📘 Class 7th। Punjabi Holiday Homework

Section:-1.ਓ ਤੋਂ ਲ਼ ਤੱਕ 2 ਵਾਰ ਲਿਖੋ

🧠 Section 2:- Fill in the Blanks (ਖਾਲੀ ਥਾਵਾਂ ਭਰੋ)

ਮੇਰਾ ਨਾਮ _____ ਹੈ।

ਮੈਂ _____ ਕਲਾਸ ਵਿੱਚ ਪੜ੍ਹਦਾ/ਪੜ੍ਹਦੀ ਹਾਂ।

ਮੇਰੇ ਸਕੂਲ ਦਾ ਨਾਮ _____ ਹੈ।

🎨 Section 3 – Drawing Work (ਚਾਰਟ ਵਰਕ)

👉 ਇੱਕ ਚਾਰਟ ਬਣਾਓ:

ਫਲਾਂ ਦੀਆਂ ਤਸਵੀਰਾਂ ਬਣਾਓ (ਸੇਬ, ਕੇਲਾ, ਅੰਬ)

ਹਰ ਫਲ ਦਾ ਨਾਮ ਪੰਜਾਬੀ ਵਿੱਚ ਲਿਖੋ

🔤 Section 4– Matching (ਮਿਲਾਓ)

ਸ਼ਬਦ

ਤਸਵੀਰ

ਸੇਬ🥥

ਬਿੱਲੀ🐶

ਕੁੱਤਾ🐱

ਕੱਪ🍎

🏡 Section 5– My Family (ਮੇਰਾ ਪਰਿਵਾਰ)

👉 4–5 ਲਾਈਨਾਂ ਲਿਖੋ:

1.“ਮੇਰਾ ਪਰਿਵਾਰ…”

2.ਮੇਰਾ ਅਧਿਆਪਕ ਲੇਖ ਲਿਖੋ

ਸਾਫ਼-ਸੁਥਰਾ ਲਿਖੋ

ਹਰ ਰੋਜ਼ ਥੋੜ੍ਹਾ-ਥੋੜ੍ਹਾ ਕੰਮ ਕਰੋ

ਚਾਰਟ ਰੰਗਾਂ ਨਾਲ ਸੋਹਣਾ ਬਣਾਓ

Do all the work on the fair note book
Learn all the work that done on fair note book

Chapter: 1 AI Domains and Applications

Exercise

A. Multiple Choice Questions.

1. Which AI technique predicts numerical values?
   a) Classification b) Clustering
   c) Regression d) Detection
2. Which AI domain works with images and videos?
   a) NLP b) Data Science
   c) Computer Vision d) Science
3. Clustering is mainly used to:
   a) Predict marks b) Group similar data
   c) Translate language d) Detect spam
4. In classification, the output is:
   a) A continuous value b) A predefined category
   c) A random number d) A chart
5. In dataset division, which data is used for final evaluation?
   a) Training b) Validation
   c) Test d) Raw data

B. Fill in the Blanks.

1. Regression predicts _____ values.
2. Clustering does not require _____data.
3. Computer Vision works mainly with _____ and videos.
4. NLP helps machines understand _____.
5. A dataset is divided into training, validation, and _____sets.

C. Short Answer Questions.

1. Differentiate between classification and regression.
2. What is clustering? Give one example.
3. Explain the importance of datasets in AI.
4. List the steps involved in Computer Vision.
5. How does NLP help in communication systems?

D. True or False.

1. Regression predicts categories.
2. Clustering is a supervised learning method.
3. Test data is used to evaluate model performance.
4. Computer Vision can detect object locations.
5. NLP can analyse sentiment in text.

E. Identify the AI Domain.

AI Application	Identify the term
Analysing MRI scans	
Text summarization of long articles	
Recommending products based on past purchases	
Grouping customers by buying behaviour	
Chatbots answering customer queries	

Solutions

1. Multiple Choice Questions.

1. c) Regression
2. c) Computer Vision
3. b) Group similar data
4. b) A predefined category
5. c) Test

2. Fill in the Blanks.

1. continuous
2. labelled
3. images
4. language
5. test

3. Short Answer Questions.

1. Classification predicts categories (spam / not spam); Regression predicts numerical values (price, marks)
2. Clustering is grouping similar data without labels.
   Example: Grouping customers based on shopping habits.
3. Datasets help AI systems learn patterns and make predictions.
   Better datasets improve model accuracy.
4. List the steps of Computer Vision:
   - Image collection
   - Image pre-processing
   - Feature extraction
   - Model training
   - Prediction
6. NLP helps machines understand human language.
   Examples:
   - Chatbots
   - Translation
   - Voice assistants

5. True or False.

I. False
II. False
III. True
IV. True
V. True

6. Identify the AI Domain.

AI Application	Identify the term
Analysing MRI scans	Computer Vision
Text summarization of long articles	NLP
Recommending products based on past purchases	Data Science
Grouping customers by buying behaviour	Data Science (Clustering)
Chatbots answering customer queries	NLP

Chapter 2: AI in Industries

Exercise

A. Multiple Choice Questions.

1. Artificial Intelligence mainly helps industries to become:
   a) Traditional b) Efficient
   c) Slow d) Manual
2. In healthcare, AI mainly helps in:
   a) Diagnosis b) Advertising
   c) Packaging d) Decoration
3. In education, AI provides:
   a) Cancelling classes b) Personalised learning
   c) Reducing learning d) Extra homework
4. In transport systems, AI is used to:
   a) Manage traffic b) Increase traffic congestion
   c) Stop route planning d) Remove public transport
5. AI supports better decision-making by:
   a) Ignoring available data b) Analysing large amounts of data
   c) Making random guesses d) Avoiding pattern recognition

B. Fill in the blanks.

1. AI-powered machines help doctors detect diseases at an _____stage.
2. Robotic surgery can make complex operations _____and reduce recovery time.
3. AI learning programs can understand how each student_____ best.
4. Traffic control systems use _____and cameras to monitor vehicles on roads.
5. AI translation tools help people understand different_____.

C. Short answer questions.

1. How does AI help in healthcare?
2. Explain how AI supports personalised learning in education.
3. How does AI improve transport systems?
4. Mention two advantages of using AI in industries.
5. How does AI improve customer service?

D. True or False:

1. AI can help doctors detect diseases at an early stage.
2. AI completely replaces teachers in classrooms.
3. AI helps traffic systems manage congestion.
4. AI cannot analyse large amounts of data quickly.
5. AI improves communication by reducing background noise in online meetings.

E. Identify the AI Applications.

AI Application	Field
Analysing MRI scans	
Giving instant quiz feedback	
Controlling traffic lights	
Blocking spam emails	
Managing inventory and energy use	

Solutions

A. Multiple Choice Questions.

1. b) Efficient
2. a) Diagnosis
3. b) Personalised learning
4. a) Manage traffic
5. b) Analysing large amounts of data

B. Fill in the blanks.

1. early
2. precise
3. learn
4. sensors
5. languages

C. Short answer questions.

1. AI helps doctors detect diseases early, analyse medical images, and assist in robotic surgery.
2. AI tracks student performance and adjusts lessons based on individual learning speed.
3. AI manages traffic signals, predicts congestion, and suggests best routes.
4. Improves efficiency and reduces human error
5. AI chatbots answer questions instantly and provide 24/7 support.

D. True or False.

1. True
2. False
3. True
4. False
5. True

E. Identify the AI Applications.

AI Application	Field
Analysing MRI scans	Healthcare
Giving instant quiz feedback	Education
Controlling traffic lights	Transport
Blocking spam emails	Communication/ Email filtering
Managing inventory and energy use	Business automation

संस्कृतम् कक्षा सप्तम् (7वीं)

ग्रीष्मकालीन अवकाश कार्यम्

1. प्रथमः पाठः अभ्यासकार्य लिखत स्मरत च । (प्रथम पाठ का अभ्यास कार्य लिखिए और याद करिए)
2. 1 से 50 तक संस्कृत में संख्या लिखिए और याद करिए।
3. चित्र बनाकर शरीर के अंगों के नाम लिखिए और याद करिए।
4. "राम" शब्द के रूप लिखिए और याद करिए।
5. **परियोजना कार्यम् :-** राष्ट्रीय गीत "वन्देमातरम्" मूलगीतम् लिखे और याद करे।

नोटः - **सारे कार्य संस्कृत की कापी पर ही करें।**

Class 7 Science Curiosity
Chapter – 1 The Ever-Evolving World of Science

1. Who is called the ‘Father of Indian Space Program’?

……

……

2. Name one ancient Indian scientist and his/her contribution to science.

……

……

3. What do you mean by the term ‘scientific temper’?

……

……

4. How is science different from belief? Give one example.

……

……

……

5. Mention any two ways in which science has changed our daily life.

……

……

……

……

6. Why is science called ‘ever-evolving’? Explain in one-two lines.

……

……

……

7. Name two Indian scientific institutions and their main work.

……

……

……

……

8. Aryabhata made major contributions to astronomy. Write any two of them.

……

……

……

……

Chapter 2
Exploring Substances Acidic, Basic and Neutral

A. Choose the correct option:

1. The substance that turns red litmus blue is:

a) Lemon juice b) Soap solution c) Vinegar d) Hydrochloric acid

2. Which is a natural indicator?

a) Phenolphthalein b) Methyl orange c) Turmeric d) Litmus paper

3. Neutralisation reaction produces:

a) Acid + Base b) Salt + Water c) Only salt d) Only water

B. Fill in the blanks:

1. Acids taste _____ while bases taste _____.

2. The juices of _____ and _____ fruits contain acids.

3. _____ is used to treat a bee sting which is acidic in nature.

4. China rose indicator turns acidic solutions to _____ and basic solutions to _____.

C. True or False:

1. All bases are alkalis. _____

2. Distilled water is neutral. _____

3. Vinegar turns blue litmus red. _____

4. Antacids contain weak bases. _____

D. Answer the following questions in the given space:

1. Name any two organic acids and give their sources.

……

……

2. What colour does phenolphthalein give with base?

……

……

3. Define indicators.

……

……

4. What is the nature of toothpaste? Why is it used?

……

……

5. Explain why a turmeric stain on white shirt turns red when washed with soap.

……

……

……

……

6. What is neutralisation reaction? Write one use in daily life.

……

……

……

……

7. You are given three liquids: HCl, NaOH, and sugar solution. How will you identify each using litmus paper only?

……

……

……

……

8. How do farmers treat the soil when it becomes too acidic or too basic?

……

……

……

……

9. If you accidentally spill lemon juice on marble floor, why does it leave a dull spot? Which type of reaction is this?

……

……

……

……

10. Boojho dipped a rose petal in lemon juice. What change would he observe? Explain.

……

……

…….

…….

11. Draw a table and classify these into acidic, basic, neutral:

Curd, Lime water, Common salt solution, Amla, Window cleaner, Sugar solution.

…….

…….

…….

…….

…….

…….

Chapter - 3
Electricity: Circuits and Their Components

1. Electricity: It is a form of energy produced by the flow of electric charges. It is used to run various appliances like bulb, fan, TV, etc.

2. Electric Circuit: It is a closed and continuous path along which an electric current flows. It consists of a cell/battery, connecting wires, bulb, and a switch. Current flows only when the circuit is complete.

3. Electric Switch: It is a simple device used to make or break an electric circuit. When the switch is ON, the circuit is complete and current flows. When OFF, the circuit breaks and current stops.

4. Circuit Diagram: It is a symbolic representation of an electric circuit using standard symbols for its components like cell, battery, bulb, switch, and wire. It helps to show how components are connected.

5. Cell: It is a device that converts chemical energy into electrical energy. It has two terminals – positive (+) and negative (–). Example: Dry cell used in torch.

6. Battery: It is a combination of two or more cells connected together. The positive terminal of one cell is connected to the negative terminal of the next cell. It provides more electrical energy than a single cell.

PRINCE SHARMA PGT PHY

7. Incandescent Lamp / Bulb: It is a device that glows and gives light when electric current passes through it. It has a thin filament of tungsten which gets heated to a high temperature and emits light.

8. LED: LED stands for Light Emitting Diode. It is a semiconductor device that emits light when electric current passes through it. LEDs consume less electricity and have longer life than bulbs.

9. Conductors: Conductors are materials that allow electric current to pass through them easily. They have free electrons.

Example: Metals like copper, aluminium, iron, human body, impure water.

10. Insulators: Insulators are materials that do not allow electric current to pass through them. They have no free electrons.

Example: Rubber, plastic, wood, glass, dry air.

NCERT EXERCISE QUESTION - ANSWERS

1. Choose the incorrect statement.
(i) A switch is the source of electric current in a circuit.
(ii) A switch helps to complete or break the circuit.
(iii) A switch helps us to use electricity as per our requirement.
(iv) When the switch is in 'OFF' position, there is an air gap between its terminals.
Answer: (i) A switch is the source of electric current in a circuit. (Incorrect)
Reason: Cell/battery is the source, not switch. Switch only controls current flow.

2. With which material connected between A and B, the lamp will not glow?
Answer: Any insulating material like rubber, plastic, wood, or glass. Insulators do not allow current to pass, so the circuit remains incomplete.

3. If the filament of one lamp is broken, will the other glow? Justify.
Answer: No, the other lamp will also stop glowing.
Reason: In a series circuit, current must pass through each component. If one filament breaks, the circuit breaks and current cannot flow.

4. A student forgot to remove insulation from wires. Will the lamp glow?
Answer: No. **Reason:** Insulation prevents electrical contact between wires and terminals. The circuit remains incomplete even if cell and bulb are working.

5. Draw a circuit diagram for a simple torch using symbols.
Answer: Connect in series: Battery → Switch → Lamp → back to Battery.

PRINCE SHARMA PGT PHY KV NO.1 RCF

6. In Fig. 3.18: If S_1 is main switch and S_2 controls L_2 only:

(i) S_2 ON, S_1 OFF → Which lamp(s) will glow?

Ans: None. S_1 is OFF, so main circuit is broken.

(ii) S_2 OFF, S_1 ON → Which lamp(s) will glow?

Ans: L_1 only. S_1 completes circuit for L_1. S_2 is OFF, so L_2 circuit is open.

(iii) Both ON → Which lamp(s) will glow?

Ans: Both L_1 and L_2 glow. Complete path for both.

(iv) Both OFF → Which lamp(s) will glow?

Ans: None. Main circuit is broken.

7. Vidyut's lamp doesn't glow. Give possible reasons?
Answer:
1. Loose connections
2. Cell is dead or inserted incorrectly
3. Bulb is fused / filament broken
4. Insulation not removed from wire ends
5. Faulty switch

Steps to check: Check battery polarity, replace bulb, re-check all connections, ensure wire ends are stripped.

8. In which case(s) will lamp NOT glow when switch is closed?
Answer: Lamp will not glow if:
(a) Lamp terminals not connected correctly
(b) Same polarity on both ends of cell/battery
(d) LED connected in reverse - longer wire must go to +ve terminal.

9. If battery markings are erased, how to identify terminals?

Answer: Use an LED. Connect LED to battery. LED glows only when its longer wire is connected to positive terminal of battery.

OTHER IMPORTANT QUESTIONS:

Q1. What is an electric cell?

Ans: An electric cell is a portable source of electrical energy with a positive and a negative terminal.

Q2. Name the part of incandescent lamp that glows.

Ans: The filament inside the glass bulb glows when current passes.

PRINCE SHARMA PGT PHY KV NO.1 RCF

Q3. What is the direction of electric current in closed circuit?

Ans: From the positive to the negative terminal of the electric cell.

Q4. Give examples of conductor and insulator.

Ans: Conductor: Metal key / Copper wire. **Insulator:** Plastic scale / Rubber.

Q5. Which terminal of LED to +ve of battery?

Ans: The longer wire of LED should connect to battery's positive terminal.

Q6. Why are electric wires covered with plastic or rubber?

Ans: Plastic and rubber are insulators. They prevent current from leaking, protect from electric shocks, and prevent short circuits.

Q7. Differentiate between Electrical circuit vs Open circuit?

Ans: Electrical circuit: Complete path, current flows, lamp glows.

Open circuit: Incomplete path due to gap/switch OFF, no current, lamp doesn't glow.

Q8. What is the role of switch?

Ans: Switch completes or breaks the circuit. ON = current flows, OFF = current stops. It helps use electricity as per need.

WORKSHEET OF CHAPTER-3

A. Choose the correct option:

1. The device that breaks or completes an electric circuit is called:

a) Cell b) Bulb c) Switch d) Wire

2. Electric current flows through a circuit when it is:

a) Open b) Closed c) Broken d) Disconnected

3. Which material is a conductor of electricity?

a) Rubber b) Plastic c) Copper d) Wood

B. Fill in the blanks – 1 Mark

1. A _____ is a combination of two or more cells.

PRINCE SHARMA PGT PHY KV NO.1 RCF

2. The filament of a bulb is made of _____ because it has a high melting point.

3. Materials that do not allow current to pass are called _____.

4. In a torch, the _____ acts as a switch.

C. True or False – 1 Mark

1. Electric current flows from negative terminal to the positive terminal of a cell. _____

2. Air is an insulator. _____

3. A fused bulb completes the circuit. _____

4. Metals are generally good conductors of electricity. _____

D. Define the following – 1 Mark each

1. Electric circuit: ……...……

……

2. Conductor: ……...……...

……

3. Insulator: ……...……..

……

E. Draw the symbols for:

a) Cell

b) Battery

c) Bulb

d) Switch in ON position

e) Wire

f) Bulb

F. Answer the following questions in given space only:

1. Why are electric wires covered with plastic or rubber?

……

……

2. What is the purpose of using a switch in a circuit? Explain with an example.

……

……

3. You are given a battery, bulb, wire and switch. Draw a diagram of a simple circuit using these components.

……

……

……

……

4. Paheli connected two terminals of a cell directly with a wire without any bulb. Why should this not be done?

……

……

……

……

5. If the filament of a bulb is broken, will the bulb glow? Explain why.

……

……

……

6. Boojho made a tester using a cell and bulb. When he dipped the free ends in lemon juice, the bulb glowed. What does this tell about lemon juice?

……

……

……

……

7. Make a list of 5 conductors and 5 insulators you find at home. Test them using a simple circuit tester if possible.

……

……

……

……

……

……

……

Chapter 4: The World of Metals and Non-metals

1. Physical Properties:

Property	Metals	Non-metals
Lustre	Shiny	Dull, except iodine & diamond
Hardness	Hard, except sodium, potassium	Soft, except diamond
Malleability	Can be beaten into sheets	Brittle, break into pieces
Ductility	Can be drawn into wires	Not ductile
Conductivity	Good conductor of heat & electricity	Poor conductor, except graphite
Sonorous	Produce sound when struck	Not sonorous
State	Solid, except mercury is liquid	Solid, liquid or gas
Melting Point / Boiling Point	High, except Na, K	Low

2. Chemical Properties:

Reaction with Oxygen:

Metals + O_2 → Metal oxide = basic in nature

Non-metals + O_2 → Non-metal oxide = acidic in nature

Reaction with Water:

Sodium reacts violently with cold water.

Iron reacts slowly with steam.

Non-metals usually don't react.

Reaction with Acids:

Metals + Dilute acid → Salt + Hydrogen gas

Non-metals generally don't react with acids.

Displacement Reaction:

More reactive metal displaces less reactive metal from its salt.

Ex: $Fe + CuSO_4 \rightarrow FeSO_4 + Cu$

3. Uses of Metals:

Iron for machines
Copper for wires
Aluminium for foil & aeroplanes
Gold/Silver for jewellery

4. Uses of Non-metals:

Oxygen for breathing
Nitrogen for fertilizers
Chlorine for water purification
Graphite for pencil lead

PRINCE SHARMA PGT PHY KV NO.1 RCF

NCERT EXERCISE QUESTION-ANSWERS

Q1. Which of the following can be beaten into thin sheets?

a) Zinc b) Phosphorus c) Sulphur d) Oxygen

Ans: a) Zinc – because it is a metal and metals are malleable.

Q2. Which of the following statements is correct?

a) All metals are ductile. b) All non-metals are ductile.

c) Generally, metals are ductile. d) Some non-metals are ductile.

Ans: c) Generally, metals are ductile.

Q3. Fill in the blanks:

a) Phosphorus is a very _____ non-metal.

Ans: reactive

b) Metals are _____ conductors of heat and _____.

Ans: good, electricity

c) Iron is _____ reactive than copper.

Ans: more

d) Metals react with acids to produce _____ gas.

Ans: hydrogen

Q4. Mark True or False:

a) Generally, non-metals react with acids. False

b) Sodium is a very reactive metal. True

c) Copper displaces zinc from zinc sulphate solution. False

d) Coal can be drawn into wires. False

Q5. Some properties are listed below. Classify as metals and non-metals:

1. Poor conductors of heat – Non-metal

2. Ductile – Metal

3. Malleable – Metal

4. Brittle – Non-metal

5. Sonorous – Metal

Q6. Give reasons:

a) Aluminium foils are used to wrap food items.

Ans: Aluminium is malleable, non-toxic, does not react with food, and prevents moisture/air from entering.

b) Immersion rods are made of metallic substances.

Ans: Metals are good conductors of heat and electricity, so they heat water quickly.

c) Copper cannot displace zinc from its salt solution.

Ans: Because zinc is more reactive than copper. Only a more reactive metal can displace a less reactive one.

d) Sodium and potassium are stored in kerosene.

Ans: They are highly reactive and react violently with oxygen and water in air. Kerosene prevents contact with air/moisture.

PRINCE SHARMA PGT PHY KV NO.1 RCF

Q7. Can you store lemon pickle in an aluminium utensil? Explain.

Ans: No. Lemon contains citric acid. Metals react with acids to form toxic salts which can spoil food and harm health.

Q8. Match items in Column A with Column B:

Column A	Column B
a) Carbon	i) Gold
b) Good conductor	ii) Graphite
c) Non-metal	iii) Oxygen
d) Metal used in jewellery	iv) Copper

Ans: a-ii, b-iv, c-iii, d-i

Q9. What happens when:

a) Iron nails are placed in copper sulphate solution?

Ans: Iron displaces copper. Solution turns green due to $FeSO_4$ and brown copper deposits on nail.$Fe + CuSO_4 \rightarrow FeSO_4 + Cu$

b) Dilute sulphuric acid is poured on a copper plate?

Ans: No reaction. Copper is less reactive and does not react with dilute acids.

Q10. Saloni took a piece of burning charcoal and collected the gas evolved. How will she find the nature of the gas?

Ans: Dissolve the gas in water. Test with litmus. Carbon is a non-metal, so its oxide CO_2 is acidic. It will turn blue litmus red.

Q11. One day Reeta went to a jeweller's shop. She saw acid was poured on gold ornaments and nothing happened. What does this show?

Ans: Gold is a noble metal. It is very less reactive and does not react with most acids. This property is used to check purity of gold.

Q12. Observe: Iron nail dipped in blue $CuSO_4$ solution for 20 min.

a) What change do you see in colour of solution? Why?

b) What is deposited on the iron nail?

c) Write the word equation for the reaction.

d) Is this a physical or chemical change?

Ans: a) Blue → Green because $FeSO_4$ forms. Fe is more reactive than Cu.

b) Brown layer of copper metal.

c) Iron + Copper sulphate → Iron sulphate + Copper

d) Chemical change.

PRINCE SHARMA PGT PHY KV NO.1 RCF

Q13: Why does the soap bubble burn with a 'pop' sound?

Ans: Because hydrogen gas is released which is combustible and burns with a pop sound.

MCQs Test: Tick right of the correct option – 10 Questions – 1 Mark each

1. Which non-metal is lustrous?

a) Sulphur b) Phosphorus c) Iodine d) Oxygen

2. The metal that exists in liquid state at room temperature is:

a) Sodium b) Mercury c) Aluminium d) Zinc

3. Which is the hardest natural substance?

a) Graphite b) Diamond c) Iron d) Copper

4. Metals produce __ sound when struck.

a) Dull b) Sonorous c) No d) Musical

5. Which gas is produced when metals react with acids?

a) Oxygen b) Carbon dioxide c) Hydrogen d) Nitrogen

6. Which of these is a good conductor of electricity but a non-metal?

a) Sulphur b) Graphite c) Phosphorus d) Coal

7. Sodium is stored in kerosene because:

a) It is soft b) It reacts with water/air c) It is costly d) It is heavy

8. Which metal will displace copper from $CuSO_4$ solution?

a) Silver b) Gold c) Iron d) Platinum

9. Non-metal oxides are generally:

a) Basic b) Neutral c) Acidic d) Sweet

10. Which property is used to make bells?

a) Malleability b) Ductility c) Sonority d) Lustre

2**. FILL IN THE BLANKS – 10 Questions**

1._____ is the only non-metal that is liquid at room temp.

PRINCE SHARMA PGT PHY KV NO.1 RCF

2.Metals can be drawn into wires due to _____ property.

3._____ and _____ are soft metals that can be cut with a knife.

4.The process of coating iron with zinc to prevent rusting is called _____.

5._____ is used in water purification and as a disinfectant.

6.Oxides of metals are _____ in nature.

7._____ is used as lead in pencils.

8.Gold does not react with air, water or acids because it is a _____ metal.

9.When iron reacts with steam, _____ gas is produced.

10.Coal is an example of _____ fuel made from carbon.

PRINCE SHARMA PGT PHY KV NO.1 RCF

पीएम श्री केन्द्रीय विद्यालय क्र.1 रेल डिब्बा कारखाना ,हुसैनपुर

ग्रीष्मकालीन अवकाश गृहकार्य

दिनाँक- 08.05.2026 से 16.06.2026

कक्षा - 7

विषय - हिन्दी

1. “शहरी जीवन या ग्रामीण जीवन”पर एम डी पी परियोजना बनाएं।

   उपविषय - i शहरी और ग्रामीण जीवन की तुलना

   Ii रहन-सहन

   Iii जनजीवन

   Iv व्यवसाय

2. सुलेख लेखन 15 पेज।

3. रोजाना एक पाठ पढ़कर उनमें से कठिन शब्द लिखें।

4.निम्नलिखित विषय पर अनुच्छेद लिखें।

पुस्तकें हमारी सच्ची मित्र

खेलों का महत्व

मोबाइल फोन के लाभ और हानि

5. प्रार्थना पत्र लिखें।

विद्यालय में स्वच्छता की व्यवस्था हेतु पत्र

पुस्तकालय में नई पुस्तकें मंगवाने हेतु पत्र

मित्र को ग्रीष्मावकाश बिताने हेतु निमंत्रण पत्र

पिता जी को परीक्षा परिणाम बताते हुए पत्र

6. संज्ञा ,सर्वनाम और विशेषण की परीभाषा और उदाहरण लिखें।

7. विलोम शब्द, पर्यायवाची शब्द और मुहावरे 10-10 लिखें।

HOLIDAY HOMEWORK WORKSHEET – CLASS 7Subject: English Language & Writing | Name: _____ Section: ____

SECTION A: GRAMMAR

Q1. Nouns: Classification & Collection

A. Circle the odd one out and state the type of noun for the remaining words:

1.Table, Chair, Honesty, Bed. (Odd one: _____ | Remaining are: _____ Nouns)

2.Army, Fleet, Student, Bouquet. (Odd one: _____ | Remaining are: _____ Nouns)

B. Write the Abstract Noun form of these words:

1.Brave: _____ |

2. Child: _____ |

3. Know: _____

Q2. Pronouns:

Fill in the BlanksFill with suitable Personal, Relative, or Reflexive pronouns:

1.This is the boy _____ won the gold medal.

2.My sister and _____ (I/me) went to the park.

3.The cat cleaned _____ after drinking the milk.

4.Is this pen _____ (your/yours) or mine?

Q3. Verbs:

1.Go.

2.Eat

3.Speak

4.Writen

Q4. Prepositions: The Position CheckChoose the correct preposition from the brackets:

The book is _____ the table. (in / on / at)

He jumped _____ the river. (into / in / to)

The school starts _____ 8:00 AM. (on / at / in)

I am sitting _____ Rohan and Rahul. (among / between)

SECTION B: CREATIVE WRITINGQ5. Q5.Notice Writing (Word limit: 50 words)

Topic: You are the Captain of the School Sports Club. Write a notice informing students about a Football Selection Trial for the school team. Mention date, time, venue, and dress code.(Draw a box for your notice below)

Q6. Message Writing (Word limit: 50 words)Situation: You received a call from your sister's friend, Sneha. She asked your sister to bring her Science notebook to school tomorrow. Your sister isn't home. Write a message for her before you go out to play.

Q7. Paragraph Writing (100-120 words)

Topic: "My Goal for the New Academic Session."

- *Hints: What subjects do you want to improve? Which hobby will you pick up? How will you manage your time?*

Q8. Informal Letter

Situation: Write a letter to your grandmother thanking her for the wonderful gift she sent for your birthday. Describe why you liked the gift and how you celebrated the day.

Instructions for Students:

1. Complete Section A directly on this worksheet.
2. Use ruled A4 sheets for Section B and attach them to this worksheet.
3. Ensure your handwriting is neat and use a blue ballpoint pen.

MDP

It must have a cover page. The title of your project should be written on the top in large font. Write “MULTI-DISCIPLINARY PROJECT” above the title. You may use sketches, photographs, cartoons etc. to make the cover page attractive. Do remember to mention your name, class and section. * **Visuals:** Use photos, diagrams, or charts to enhance your work. * **Index:** Include a common index page:

Topic - Rural versus Urban life

Paragraph Writing on life style,food habits, surroundings interaction.

(Evaluation & Submission * **Criteria:** Concept Clarity (4), Content/Presentation (4), Punctuality/Neatness (2). Total: **10 Marks**. * **Submission Date:** June 19, 2026

HOLIDAY HOMEWORK
SUMMER VACATION (03.05.2026 to 20.06.2026)
CLASS – VII
SOCIAL SCIENCE

1. **Map work (Label and locate states and union territories with their capitals on India Map and paste in your notebook)**

2. **What are some key geographical features of India.**

3. **Write about a tourist place of India which you like the most.**

4. **What are the three main ranges of Himalaya? Explain.**

5. **Write about the 'Cold Desert of India'**

6. **Write a paragraph on World Environment Day (5 June).**

7. **Write about on a local historical place nearby you.**

8. **Write about the fundamental rights and duties of Indian citizens given by the Indian Constitution.**

9. **Complete your Social Science MDP work. (Water Conservation).**

10. **Write and learn the 'Preamble' of the Indian Constitution.**

11. **Imagine you are a historian studying ancient India. What types of sources (archaeological, literary, etc.) would you use to learn more about the mahājanapadas?**

12. **"The introduction of iron metallurgy was a key catalyst for the Second Urbanisation." Evaluate this statement.**

Holiday Homework Worksheet – Class 8 (English)

Section A: Noun

Q1. Identify the type of noun (Proper, Common, Abstract, Collective):

1. Honesty is the best policy. _____
2. The team played well. _____
3. Delhi is the capital of India. _____
4. The dog is barking. _____

Q2. Change the nouns into plural form:

1. Child → _____
2. Mouse → _____
3. Leaf → _____
4. Woman → _____

Section B: Verb

Q3. Underline the verbs in the sentences:

1. She is singing beautifully.
2. They completed their homework.
3. We are going to the park.
4. He plays cricket daily.

Q4. Fill in the blanks with correct form of verb:

1. She _____ (write) a letter now.
2. They _____ (go) to school yesterday.
3. I _____ (eat) lunch already.
4. He _____ (play) football every day.

Section C: Compound Words

Q5. Join the words to make compound words:

1. Sun + light = _____
2. Tooth + paste = _____
3. Rain + bow = _____
4. Class + room = _____

Q6. Break the compound words:

1. Notebook = _____ + _____
2. Football = _____ + _____
3. Bedroom = _____ + _____

Section D: Clauses

Q7. Identify the clause type (Noun / Adjective / Adverb):

1. I know that he is honest. _____
2. The boy who is playing is my brother. _____
3. She left because she was tired. _____

Q8. Combine the sentences using clauses:

1. He is my friend. He helps me.
   → _____

2. I was late. I missed the bus.
   → _____

Section E: Synonyms and Antonyms

Q9. Write synonyms:

1. Happy → _____
2. Big → _____
3. Fast → _____

Q10. Write antonyms:

1. Hot → _____
2. Strong → _____
3. Early → _____

Section F: Notice Writing

Q11. Write a notice for your school notice board about a “Cleanliness Drive” to be held in your school. Include:

- Date
- Time
- Venue
- Instructions

(Word Limit: 50–60 words)

Section G: Narrative Essay Writing

Q12. Write a narrative essay on any ONE topic:

1. A Day I Will Never Forget
2. An Unexpected Adventure

(Word Limit: 120–150 words)

Section H: Creative Task
Make a colorful chart showing:

- Types of Nouns
- Examples of Compound Words
- 5 Synonyms & Antonyms

Section I: MDP
Rubrics

1. Content & Understanding (2 Marks)

2 Marks: Deep understanding of the topic with relevant and accurate information
1 Mark: Basic understanding with some gaps
0 Marks: Poor or incorrect understanding

- **2. Expression & Language (2 Marks)**

2 Marks: Clear, grammatically correct, and well-expressed ideas
1 Mark: Minor grammatical errors, meaning understandable
0 Marks: Many errors, difficult to understand

- **3. Creativity & Originality (2 Marks)**

2 Marks: Highly creative, original ideas and presentation

1 Mark: Some creativity but mostly basic
0 Marks: No originality, copied or very simple work

🔹 **4. Presentation & Neatness (2 Marks)**

2 Marks: Very neat, well-organized, visually appealing
1 Mark: Average presentation, some improvement needed
0 Marks: Untidy and poorly presented

🔹 **5. Completion & Effort (2 Marks)**

2 Marks: Fully completed with sincere effort
1 Mark: Partially complete or average effort
0 Marks: Incomplete or careless work

Section j:Story Writing
Topics for Story writing (Any two)

① An embarrassing moment in class.

(2) ② A mistake that taught me a lesson

3 Helping my Grandparents

④ when I realised the value of my family

5 A lie that Created trouble

Section j: Read one page daily and write 5 difficult words with meaning.

Happy Learning & Enjoy Your Holidays! 🌼

PM SHRI KV 1 RCF HUSSAINPUR

Holiday Assignment (Summer Vocation)

Class 8

Subject - Vocational Education

Session -2026-27

Project:

1 . Make a Simple LED Light Circuit Using a 9V battery, Switch and LED or Fan in innovative way.



2. - Make a hanging planter with waste plastic bottles




3..Make a Hydroponic setup with the help of NFT ,Wick method, OR Deep water culture technique.

Class: 8th subject :punjabi

Summer holidays home work

✍️ 1.ਵਾਕ ਬਣਾਓ (Make Sentences)
ਹੇਠਾਂ ਦਿੱਤੇ ਸ਼ਬਦਾਂ ਨਾਲ ਵਾਕ ਬਣਾਓ:

ਸਕੂਲ
ਕਿਤਾਬ
ਮਾਂ
ਖੇਡ
ਕਲਾਸ

🎨 2.ਚਿੱਤਰ ਦੇਖ ਕੇ ਲਿਖੋ (Picture Writing)
👉 ਕਿਸੇ ਵੀ ਚਿੱਤਰ (ਪਿੰਡ, ਸਕੂਲ, ਬਾਗ) ਦਾ 4–5 ਲਾਈਨਾਂ ਵਿੱਚ ਵਰਣਨ ਕਰੋ|

3.ਲੇਖ (Essay Writing)

👉 ਹੇਠਾਂ ਵਿੱਚੋਂ ਇੱਕ ਲਿਖੋ (5–7 ਲਾਈਨਾਂ):
ਮੇਰਾ ਸਕੂਲ
ਮੇਰਾ ਪਰਿਵਾਰ
ਮੇਰਾ ਮਨਪਸੰਦ ਖੇਡ

4. ਵਿਆਕਰਨ (Grammar)

👉 ਲਿੰਗ ਬਦਲੋ:
ਮੁੰਡਾ =

ਸ਼ੇਰ =

ਪਿਤਾ=

ਮੋਰ=

ਮਾਮਾ=

ਨਾਨਾ=

ਚਾਚਾ=

ਜੇਠ =

👉 5.ਵਚਨ ਬਦਲੋ:
ਕਿਤਾਬ =

ਬੱਚਾ=

ਮੇਜ਼=

ਕਮਰਾ=

ਕਲਾਸ=

ਲਾਈਟ=

ਕੱਪੜਾ=

ਬੱਚਾ=

🎨 6. ਚਾਰਟ ਵਰਕ (Project Work)

👉 ਇੱਕ ਚਾਰਟ ਬਣਾਓ:

1. “ਮੇਰਾ ਪੰਜਾਬ”

2.ਤਸਵੀਰਾਂ ਲਗਾਓ (ਖੇਤ, ਨਦੀਆਂ, ਲੋਕ ਨੱਚ)

5 ਲਾਈਨਾਂ ਲਿਖੋ|

Do all the work on the fair note book.
Learn all work that done on fair note book.

HOLIDAY'S HOME WORK

SUBJECT- MATHS

CLASS-VIII

1.

Page Number	Heading	Question Number
10	Figure it out	1,2,3,4,5,6,7,8,9
16	Figure it out	1,2,3,4,5
22	Figure it out	1(all parts),2(all parts)3(all parts).
44	Figure it out	1,2,3(I,ii,iii),4,5,6,7,8,9,10.

2.Learn tables 2 to 25.

3.Learn squares from 1 to 30.

4.Learn cubes from 1 to 15.

Chapter 1: AI Project Lifecycle

Exercise

A. Multiple Choice Questions.

1. AI learns from:
   a) Magic b) Luck
   c) Data d) Guessing
2. In spam detection, the AI problem is to:
   a) Send emails b) Write emails
   c) Delete all emails d) Identify spam emails
3. The first stage of a project cycle is:
   a) Defining the problem b) Data collection
   c) Model development d) Model deployment
4. If AI model predicts 8 out of 10 spam emails, the accuracy of model:
   a) 50% b) 20%
   b) 80% d) 100%
5. AI model improves because:
   a) It thinks like human b) It has feeling
   c) It gets new data added d) It gets angry

B. Fill in the blanks.

1. AI learns by finding _____ in data.
2. An AI project follows a _____cycle.
3. Spam emails often contain suspicious _____.
4. After testing, we _____the system.
5. AI cannot work without _____.

C. Short answer questions.

1. How does AI learn?
2. Why is defining the problem important in an AI project?
3. What happens in the testing stage of an AI project?
4. What is meant by accuracy in AI?
5. Give one real-life example of an AI project.

D. Think and apply.

1. Imagine you are building an AI system to detect fake news.
   Fill the table:

Stage	Your Answer
Define the problem	_____
Collect data	_____
Test AI tools	_____
Reflect and improve	_____

2. An online shopping company wants to build an AI system to predict whether a product will be delivered **on time or late**.

To build this system, the company collects the following data from previous orders:

Order	Distance	Weather	Traffic	Delivery Partner	Final Status
O1	5 km	Clear	Low	Experienced	On Time
O2	20 km	Rainy	High	New	Late
O3	10 km	Clear	Low	Experienced	On Time
O4	15 km	Rainy	High	New	Late

After training, the model learned from the following pattern and delivery will be on time, if:

- Distance is less than 10 km.
- Weather is Clear
- Traffic is Low
- Delivery partner is Experienced

Based on the learned pattern, complete the following table.

Order	Distance	Weather	Traffic	Delivery Partner	Final Status
O5	8 km	Clear	Low	Experienced	_____
O6	18 km	Rainy	High	New	_____

Solutions

A. Multiple Choice Questions.

1. c) Data
2. d) Identify spam emails
3. a) Defining the problem
4. c) 80%
5. New data is added

B. Fill in the blanks.

1. patterns
2. project
3. words
4. improve
5. data

C. Short answer questions.

1. AI learns by analysing data and finding patterns to make predictions.
2. It helps understand what the AI system needs to solve and guides data collection.
3. The AI model is checked using test data to measure accuracy and performance.
4. Accuracy is how correctly the AI predicts results.
   Example: 8 correct out of 10 = 80% accuracy.
5. Spam email detection system.

D. Think and apply.

1. Imagine you are building an AI system to detect fake news.

2. Fill the table:

Stage	Your Answer
Define the problem	Detect fake news articles
Collect data	Collect real and fake news examples
Test AI tools	Check if AI correctly identifies fake news
Reflect and improve	Add more data and improve accuracy

3.

Order	Distance	Weather	Traffic	Delivery Partner	Final Status
O5	8 km	Clear	Low	Experienced	On Time
O6	18 km	Rainy	High	New	Late

Chapter 2: Artificial Intelligence and Its Applications

Exercise

A. Multiple Choice Questions.

1. AI helps in environmental protection by:
   a) Tracking wildlife populations b) Predicting pollution levels
   c) Detecting plastic waste d) All of the above
2. No-code AI tools allow users to:
   a) Program AI models using coding b) Train AI models without coding
   c) Only analyse text data d) Replace teachers completely
3. AI can predict future health risks by analysing a patient:
   a) Favourite movies b) Medical history and lifestyle habits
   c) Social media posts d) Travel destinations
4. Which environmental problem can AI help solve by analysing satellite images of rivers and oceans?
   a) Soil degradation b) Plastic pollution
   c) Air pollution d) Water shortage
5. An example of AI in smart homes is:
   a) Self-driving cars b) Voice-controlled appliances
   c) Tracking wildlife populations d) Predicting diseases

B. Fill in the Blanks

1. AI-powered _____ can answer health questions and remind patients to take medicines.
2. Satellites and sensors help AI detect _____ pollution in oceans and rivers.
3. AI in education can provide _____learning tailored to each student's needs.
4. Wearable devices allow AI to perform _____ patient monitoring.
5. Platforms like_____ allow students to train AI models without coding.

C. Short Answer Questions

1. Name two ways AI helps in reducing environmental problems.
2. How does AI assist doctors in medical diagnosis?
3. Give one example of AI application in smart homes.
4. What is the benefit of personalised learning in education?
5. Explain the role of AI in agriculture.

D. Think and Apply

1. Design a simple AI project using a no-code platform to help sort waste in your school. What steps would you follow?
2. How can AI predict and prevent water shortages in your area?
3. Suggest a way AI could help students struggling with mathematics.
4. If you were a farmer, how would you use AI to improve crop production and protect soil health?

Solutions

A. Multiple Choice Questions.

1. d) All of the above
2. b) Train AI models without coding
3. b) Medical history and lifestyle habits
4. b) Plastic pollution
5. b) Voice-controlled appliances

B. Fill in the Blanks

1. chatbots
2. plastic
3. personalized
4. continuous
5. Teachable Machine

C. Short Answer Questions

1. Name two ways AI helps in reducing environmental problems:
    - Detecting plastic waste in oceans
    - Monitoring wildlife populations
2. AI analyses medical images, patient history, and symptoms to detect diseases early.
3. Voice-controlled lights or smart assistants that control appliances.
4. Students learn at their own pace based on their strengths and weaknesses.
5. AI helps farmers predict weather, monitor crops, detect diseases, and improve yield.

D. Think and Apply

1. Steps:
    - Define problem: Sort recyclable and non-recyclable waste
    - Collect data: Images of different waste items
    - Train model using no-code tool
    - Test model with new waste images
    - Improve by adding more data
2. AI analyses rainfall data, water usage, and weather patterns to predict shortages and suggest saving measures.
3. AI tutor can give step-by-step solutions and personalised practice questions.
4. AI can:
    - Predict weather
    - Suggest best crops
    - Monitor soil moisture
    - Detect plant diseases