DRONACHARYA
SR. SEC. SCHOOL MUBARIKPUR (JH)
AFFILIATED TO CBSE NEW DELHI, Aff No. 530945 |

Winter Holiday Homework

Class- VIII

GENERAL INSTRUCTIONS
- Complete your homework in the given time period.
- Make a separate single notebook for all subjects.

English	***Assertion -Reason Questions:-*** **Each question follows this pattern:** **A. Assertion** **R. Reason** **Options:** **a) Both A and R are true, and R is the correct explanation of A** **b) Both A and R are true, but R is not the correct explanation of A** **c) A is true, but R is false** **d) A is false, but R is true** **☐ Conjunctions** **1.** **A: The word but is used to show contrast between two ideas.** **R: But joins two sentences that give similar information.** **2.** **A: The conjunction because shows reason.** **R: It connects a result with its cause.** **3.** **A: "He stayed at home because he was sick" uses a conjunction.** **R: Because joins two clauses.** **☐ Prepositions** **1.** **A: The word under is a preposition.** **R: Prepositions show the relationship between a noun or pronoun and another word.** **2.** **A: In the sentence "The cat is on the table," on shows position.** **R: Prepositions are used only to show time.** **3.** **A: Prepositions are placed before nouns or pronouns.** **R: The word preposition means "placed before."** **☐ Voice (Active and Passive)** **1.** **A: In the passive voice, the object of the active sentence becomes the subject.**

R: Passive voice focuses more on the action than the doer.

2.

A: "The boy kicked the ball" is a passive voice sentence.

R: In active voice, the subject performs the action.

☐ **Narration (Direct and Indirect Speech)**

1.

A: In indirect speech, quotation marks are not used.

R: The speaker's exact words are not repeated in indirect speech.

2.

A: The word said to is changed to told in indirect speech.

R: Told is used when an object is mentioned.

Case–Based Question : Grammar + Application

Read the situation carefully:

Meena was preparing for a debate competition. She practiced speaking in front of a mirror and recorded her voice daily. Her parents supported her, but she felt nervous. On the day of the competition, she spoke confidently and won second prize.

Questions:

1. Why did Meena practice speaking daily?

2. Identify the preposition in the sentence:

"She practiced speaking in front of a mirror."

3. Choose the correct form:

Meena spoke confidently ____ she was nervous.

a) because

b) although

c) so

d) and

4. Rewrite in indirect speech:

Meena said, "I am nervous."

5. What lesson does this story teach?

Prepare Seminar on the topics given below ☐

- **Nouns and It's Kind (Roll no. 1-5)**
- **Pronouns and It's kind (Roll no. 6-10)**
- **Adjectives and Degree of Comparision (Roll no. 11-15)**
- **Conjunctions (Roll no. 16-20)**
- **Prepositions (Roll no. 21- 23)**
- **Simple Present Tense (Roll no. 24-29)**

Write and learn 5 wordsfrom each chapter (chapter -10-14)

Vocabulary Builder

Learn 20 new English words related to winter, travel, or emotions.

Write:

- **Word**
- **Meaning**
- **Sentence**

Hindi	**दिन 1 – पठन कार्य** अपनी हिंदी पाठ्यपुस्तक से कोई भी एक कहानी पढ़ें और पात्रों के नाम, सार व सीख लिखें। **दिन 2 – निबंध लेखन** विषय – मेरा प्रिय नेता (150–200 शब्द) **दिन 3 – व्याकरण अभ्यास** विराम चिह्न और लघुकथा का चार्ट तैयार करें। **दिन 4 – रचनात्मक गतिविधि** 5 हिंदी मुहावरों के अर्थ को चित्र बनाकर बताएं। **दिन 5 – कविता लेखन** विषय – 'सर्दियों का मौसम' (8 -10) पंक्तियां लिखिये। **दिन 6 – भाषण लेखन** विषय –' स्वच्छ भारत – स्वस्थ भारत" 15 से 20 लाइनें लिखकर घर पर बोलने का अभ्यास करे। **दिन 7 – समाचार कार्य** एक राष्ट्रीय व एक खेल समाचार लिखकर प्रस्तुत करे । **दिन 8 – पुस्तक समीक्षा** किसी हिंदी कहानी की समीक्षा करे। **दिन 9 – परियोजना कार्य** विषय – हिंदी भाषा का महत्व लिखे। **दिन 10 – अनुभव लेखन** मेरा शीतकालीन अवकाश अनुभव चार्ट पर लिखकर सजायें।
Maths	**Chapter 1: Rational Numbers** **1. Evaluate: (-3/5 + 7/10) ÷ (2/5)** **2. Arrange in ascending order: -3/4, 2/3, -5/6, 1/2** **3. Find the rational number which when added to -7/9 gives zero.** **4. If x = -3/4, find 4x + 5/2.** **Assertion–Reason:** **Assertion (A): Rational numbers are closed under subtraction.** **Reason (R): Difference of two rational numbers is always rational.** **Case-Based:** **A tank was filled with 3/5 water. Later 7/10 more water was added.** **(i) Find total water filled.** **(ii) Is the result rational?**

(iii) Name the property used.

Chapter 2: Linear Equations in One Variable

1. Solve: (3x/5) − 7 = 8

2. Solve: 2(x − 4) + 5 = 3x + 1

3. Sum of three consecutive integers is 72. Find them.

4. Five times a number reduced by 9 gives 31. Find the number.

Assertion–Reason:

Assertion (A): A linear equation in one variable has a unique solution.

Reason (R): The highest power of variable is one.

Case-Based:

Sum of digits of a two-digit number is 10. Reversed number is 36 more than original.

(i) Form the equation.

(ii) Find the number.

Chapter 3: Understanding Quadrilaterals

1. Identify the quadrilateral whose diagonals bisect each other at right angles.

2. Differentiate between square and rhombus (any two points).

3. State true or false with reason: All rectangles are squares.

Assertion–Reason:

Assertion (A): Diagonals of a rhombus bisect each other at right angles.

Reason (R): A rhombus is a special parallelogram.

Case-Based:

A quadrilateral has all sides equal and diagonals intersect at right angles.

(i) Identify it.

(ii) Are diagonals equal?

Chapter 4: Polygons

1. Find number of sides if each interior angle is 150°.

2. How many diagonals does a polygon with 10 sides have?

3. Find sum of exterior angles of a polygon.

Assertion–Reason:

Assertion (A): Sum of exterior angles of any polygon is 360°.

Reason (R): Exterior angles are formed by extending sides.

Case-Based:

Sum of interior angles of a polygon is 1080°.

(i) Find number of sides.

(ii) Name the polygon.

Chapter 5: Data Handling

Data: 45, 50, 55, 60, 60, 65, 70

1. Find mean and median.

2. Which measure best represents data? Why?

Assertion–Reason:

Assertion (A): Mean is affected by extreme values.

Reason (R): Mean depends on sum of observations.

Case-Based:

Daily wages (Rs): 300, 350, 400, 400, 450, 800

(i) Find mean and mode.

(ii) Which gives correct idea of earnings?

Chapter 6: Mensuration

1. Find area of a rectangular park if length is twice of its breadth and perimeter is 60 m.

2. Cost of tiling a square floor at Rs15/m² is Rs540. Find side.

Assertion–Reason:

Assertion (A): Increasing side of square increases area.

Reason (R): Area is proportional to square of side.

Case-Based:

A field is 40 m by 25 m.

(i) Find area.

(ii) Find fencing cost at Rs12/m.

(iii) New area if length increases by 5 m.

Activities:

1. Maths in daily life – 6 examples (2 of each) explaining the use of Natural numbers, whole numbers , rational numbers in daily life.

2. Polygon art activity (Draw a scenery using polygons , colour it beautifully, write the name of the shapes used)

3. Draw a bar graph of the data of the time spent for different activities in a day.

Activities	Time (in hours)	Tally marks
Playing		
Studying		
Sleeping		
Travelling		
Watching TV/ mobile phone		

4. Create a Maths Quiz having with 3 different Rounds(each of different type i.e. Rapid fire round, 25 sec to answer round, T/F based, fillup based ………so on). Each round must have 6 questions from different chapters.

	Day 15: Revision + reflection on importance of Mathematics.
Science	**Worksheet: Light** **Section A: Multiple Choice Questions** **1. What is light?** **a) A form of energy** **b) A type of sound** **c) A form of matter** **d) None of these** **2. Which of the following is a source of light?** **d) None of the above** **a) Moon** **b) Star** **c) Lamp** **d) All of the above** **3. Light travels in:** **a) Curved lines** **b) Straight lines** **c) Circular paths** **d) Zigzag paths** **4. The phenomenon of bending of light when it passes from one medium to another is called:** **a) Reflection** **b) Refraction** **c) Dispersion**

d) Diffraction

Section B: Fill in the Blanks

1. The speed of light in a vacuum is approximately_____

km/s.

2. A _____object reflects all the colors of light that fall on it.

3. When light hits a surface and bounces back, the process is called_____

4. The_____ is the part of the eye that controls the amount of light entering it.

Section C: Short Answer Questions

1. Explain the difference between transparent, translucent, and opaque materials.

2. Describe how a rainbow is formed.

3. What is the role of a concave mirror in a solar cooker?

Section D: Diagram

1. Draw a diagram showing the reflection of light in a plane mirror. Label the incident ray, reflected ray, and the normal line.

Section E: True or False
1. Light can travel through a vacuum. True/False

2. A prism can split white light into various colors. True/False

3. The human eye can only detect ultraviolet light. True/False

4. Shadows are formed because light travels in straight lines. True/False
Project work:-
. On a political map of India, mark the locations of five national parks and five wildlife sanctuaries.
. Find out about the defects of vision that people in your locality suffer from. Find the cause and the remedial measures they are taking. Prepare a project report on this.
. Make a PowerPoint presentation on any one endangered animal. Include information about its habitat. Find the reasons for its falling numbers and the steps taken to conserve it.
                         OR
Plan a visit to a National Park or sanctuary. Make a list of animals found there . Group them as endemic and endangered species.

	.. Revise chapter 4 and 12 for test
Social Science	**1.Paragraph Writing -(SUBJECT INTEGRATION-ENGLISH)** Write 150 words about famous social activists like Mahatma Phule OR Raja Rammohan Roy and what they did for society." **2.Population of India-(CONCEPTUAL UNDERSTANDING)** Fill the following in the political map of India and paste into Holiday homework Notebook- 1.Name the state with the highest and lowest population density. 2.Which states have more female then males. 3.Which state has low sex ratio. 4.Which state has lowest population. 5.Which state has the high literacy rate. **3.Judicial System of India-(ART INTEGRATION & INFORMATION GATHERING)** Make a chart titled 'The Judiciary of India' in the form of a pyramid.On top,paste the picture of the Supreme Court and the chief Justice of India.Next paste the picture of the high court of your state.In the next level ,paste the picture of district court of your area.Next to the courts write the names of places where the respective courts are situated. **Note-Prepare this on A4 Size Sheet.** **4.Project work-(PROJECT BASED LEARNING)** India is home to many tribal communities.choose any 2 tribal communities from different states and make a project and make your project interesting with following points- 1.Present location of the tribe 2.Their current population 3.Their language 4.Their music and dance 5.Their food habits and main festivals **5.Geography Chapter -7 and Civics -5 For Test.** **Guidance for Homework-** Create a Study Routine Write neat and clean Finish easy tasks first, then difficult ones Ask teachers or parents if you do not understand

Sanskrit	निर्देश (Instructions): • सभी कार्य सुंदर लेखन में करें। • परियोजना कार्य रंगीन चित्र, चार्ट एवं रचनात्मकता के साथ प्रस्तुत करें। • संस्कृत भाषा का अधिक से अधिक प्रयोग करें। □ **SECTION – A : Creative Language Activities** ✍□ **1. Sanskrit Calligraphy Art** किसी एक प्रेरणादायक श्लोक / सुभाषित को • सुलेख (Calligraphy) में लिखें • उसका हिंदी भावार्थ लिखें • पृष्ठ को कला-कार्य से सजाएँ □ **2. चित्र से संस्कृत सृजनम्** किसी एक विषय पर चित्र बनाइए: □ प्रकृति / नारी सशक्तिकरण / पर्यावरण / विद्यार्थी जीवन चित्र के आधार पर 8–10 संस्कृत वाक्य लिखिए। □ **3. संवाद लेखन (Dialogue Writing)** विषय (कोई एक): • छात्र और शिक्षक • दो मित्र • माता और पुत्र □ 10–12 सरल संस्कृत वाक्यों में संवाद लिखें। □ **4. संस्कृत कथा लेखन** विषय: □ परिश्रमः सफलतायाः कुञ्जिका या □ सत्यस्य विजयः • कहानी संस्कृत में लिखें • 2–3 चित्र बनाइए • अंत में शिक्षा लिखें □ **SECTION – B : Grammar with Fun** □ **5. व्याकरण रचनात्मक अभ्यास** निम्न में से कोई 3 करें: • धातु रूप – गम् / पठ् / लिख् / कृ (लट् लकार) • शब्द रूप – राम / नदी / फल / गुरु • कारक प्रयोग – 5 वाक्य • लिंग परिवर्तन – 6 शब्द □ **6. Sanskrit Game Page** कोई एक बनाइए: • Crossword Puzzle (संस्कृत शब्दों से) • Word Search

• **Match the following (शब्द–अर्थ)**

☐ SECTION – C : MAJOR PROJECT WORK

☐ **7. PROJECT – "संस्कृत : विश्वभाषा"**
(5–6 पृष्ठ)
परियोजना में शामिल करें:
संस्कृत का परिचय
संस्कृत का वैज्ञानिक महत्व
संस्कृत और योग
संस्कृत का आधुनिक उपयोग
5 प्रसिद्ध श्लोक (अर्थ सहित)
सुंदर चित्र / चार्ट

☐ **8. Art Integrated Project**
संस्कृत एवं भारतीय संस्कृति
• मंदिरों में श्लोक
• संस्कारों में संस्कृत
• राष्ट्रीय प्रतीकों के संस्कृत नाम
(कम से कम 3 पृष्ठ)

☐ SECTION – D : Experiential Learning
☐ **9. Shloka Presentation**
किसी एक श्लोक को
• याद करें
• भाव समझें
• उसका महत्व 5 वाक्यों में लिखें
(यदि संभव हो तो अभिनय / प्रस्तुति)

☐ **10. My Sanskrit Reflection**
विषय:
☐ **"संस्कृत भाषा से मैंने क्या सीखा?"**
• 10–12 पंक्तियाँ
• संस्कृत या हिंदी में
• अनुभव आधारित लेखन
☐ **BONUS CREATIVE TASK (Optional)**
☐ **Mini Sanskrit Magazine बनाएँ, जिसमें हों:**
• श्लोक
• कहानी
• चित्र
• रोचक तथ्य
• स्वयं रचित संस्कृत वाक्य

Computer	1. **Learn ch 8,9,10 and write in a rough notebook.**
	2. **Make 20 MCQ from each chapter (ch- 8,9,10)**
	3. **Choose one real-life robot (e.g., Sophia, ASIMO, or a robotic vacuum cleaner).**
	Write 5–6 lines on:
	1. What it is designed for
	2. How it uses sensors and AI
	3. How it helps humans
	4. **Write about three ways Artificial Intelligence (AI) can help the world reach these goals.**
	Example:
	1. AI can help farmers grow more food using less water.
	2. AI can help doctors detect diseases early.