AUTUMN BREAK HOLIDAY HOMEWORK

Mathematics | Class 7

Kendriya Vidyalaya - Session 2026-27

Autumn Break: 15 October 2026 to 24 October 2026 (10 days)

Revision of chapters completed before the break (as per the Split-Up Syllabus)

Chapters Covered (for revision)

- Ch 1 - Large Numbers Around Us
- Ch 2 - Arithmetic Expressions
- Ch 3 - A Peek Beyond the Point (Decimals)
- Ch 4 - Expressions Using Letter-Numbers
- Ch 5 - Parallel and Intersecting Lines
- Ch 6 - Number Play
- Ch 7 - Tale of Three Intersecting Lines (Triangles)
- Ch 8 - Working With Fractions

Instructions for Students

1. Attempt one worksheet each day. Do all the work neatly in your Maths notebook.
2. Write the question number and then the complete solution, showing each step.
3. Draw diagrams and graphs with a pencil and ruler wherever needed.
4. Revise the chapter from the textbook before starting that day's worksheet.
5. This is revision work only, based on what has already been taught in class.

Day 1: Large Numbers Around Us

1. Write 7,54,321 in words (Indian system).
2. Write 8,05,00,000 using commas in the International system.
3. Compare using >, < or = : 9,99,999 ____ 10,00,000.
4. Write the place value of the digit 6 in 4,63,25,107.
5. Round off 78,45,321 to the nearest lakh.
6. Using the digits 3, 0, 8, 5, 1 (each once), write the smallest and the greatest 5-digit number.
7. Write 50,00,000 in the International system.
8. Write 45,67,890 in expanded form.

Day 2: Arithmetic Expressions

1. Simplify using BODMAS: 12 + 6 x 3 - 4.
2. Simplify: 48 / 6 + 3 x 5 - 2.
3. Simplify using the distributive property: 25 x 102.
4. Simplify: 15 + 5 x (6 - 2) / 2.
5. Simplify: 100 - [20 + {15 - (10 - 5)}].
6. Simplify: 7 x 8 + 6 x 5 - 20 / 4.
7. Verify: 18 x (10 + 3) = 18 x 10 + 18 x 3.
8. Simplify: (36 / 4) x (25 - 15) + 8.

Day 3: A Peek Beyond the Point (Decimals)

1. Write 3/10, 45/100 and 7/1000 as decimals.
2. Convert 0.75 into a fraction in lowest terms.
3. Arrange in ascending order: 0.7, 0.07, 0.77, 0.707.
4. Add: 12.45 + 3.7 + 0.05.
5. Subtract: 20.5 - 8.75.
6. Multiply: 3.6 x 1.5.
7. Divide: 7.2 / 0.8.
8. Write the place value of the digit 5 in 23.456.

Day 4: Expressions Using Letter-Numbers

1. Write an algebraic expression for 'five more than three times a number x'.
2. If x = 4, find the value of 3x + 5.
3. Identify the terms and the coefficients in 7a - 3b + 2.
4. Simplify: 4x + 3x - 2x.
5. Write the expression for the perimeter of a rectangle of length l and breadth b.
6. Add: 3a + 4b and 2a - b.
7. Subtract 5x + 3 from 8x + 7.
8. If the cost of one pen is Rs p, write the cost of 12 pens.

Day 5: Parallel and Intersecting Lines

1. Draw two parallel lines cut by a transversal and label a pair of alternate interior angles.
2. Two parallel lines are cut by a transversal. If one angle is 70 degrees, find its corresponding angle.
3. Give two real-life examples of parallel lines and two of intersecting lines.
4. A transversal makes an angle of 110 degrees with one of two parallel lines. Find the co-interior angle.
5. State the difference between parallel lines and intersecting lines.
6. Two parallel lines are cut by a transversal. If one angle is 65 degrees, write the measures of the other angles.
7. How many lines can be drawn through a point parallel to a given line?
8. In a figure, angles 3 and 5 are alternate interior angles. If angle 3 = 80 degrees, find angle 5.

Day 6: Number Play

1. Make a 3 x 3 magic square using the numbers 1 to 9 and check one diagonal.
2. Find the missing numbers: 4, 9, 16, ____, 36, ____.
3. Write the rule for the pattern 2, 6, 12, 20, 30, ... and find the next term.
4. Test whether 5,313 is divisible by 3 and by 9.
5. Find the digit that makes 4_2 divisible by 3.
6. Write the next two terms: 3, 7, 11, 15, ____, ____.
7. In a magic square the sum of each row is 15. Complete the row: 2, 7, ____.
8. Find the value of the pattern 1 + 2 + 3 + ... + 10.

Day 7: Tale of Three Intersecting Lines (Triangles)

1. Construct a triangle with sides 4 cm, 5 cm and 6 cm.
2. Classify a triangle whose angles are 60, 60 and 60 degrees.
3. Can a triangle have angles 90, 90 and 0 degrees? Give a reason.
4. Find the third angle of a triangle whose two angles are 55 and 65 degrees.
5. Construct a triangle with sides 5 cm, 5 cm and 8 cm. What type of triangle is it?
6. A triangle has sides 3 cm, 4 cm and 5 cm. Is it a right triangle?
7. Can a triangle be formed with sides 2 cm, 3 cm and 6 cm? Give a reason.
8. Name the triangle in which (a) all sides are equal, (b) two sides are equal, (c) no sides are equal.

Day 8: Working With Fractions (Part 1)

1. Add: 2/5 + 3/10.
2. Subtract: 7/8 - 1/4.
3. Multiply: 3/4 x 8/9.
4. Divide: 5/6 / (10/3).
5. Arrange in ascending order: 1/2, 2/3, 3/5.
6. A recipe needs 3/4 cup of sugar. How much sugar is needed for double the recipe?
7. Simplify: 2/3 + 1/6 - 1/2.
8. Convert 7/4 into a mixed fraction.

Day 9: Working With Fractions (Part 2)

1. Multiply: 2/7 x 14.
2. Divide: 3 / (1/3).
3. A ribbon of length 5 m is cut into pieces of 1/4 m each. How many pieces are obtained?
4. Find 1/2 of 3/4.
5. Compare 3/7 and 4/9 using cross multiplication.
6. Ravi ate 2/5 of a cake and Meena ate 1/4. Who ate more and by how much?
7. Simplify: (2/3) x (9/4).
8. Write three equivalent fractions of 2/5.

Day 10: Mixed Revision

1. Simplify using BODMAS: 18 / 3 + 4 x 5 - 6.
2. Convert 0.625 into a fraction in lowest terms.
3. Find the third angle of a triangle with angles 45 and 90 degrees.
4. Add: 4/9 + 2/3.
5. Write an expression for 'seven less than twice x'.
6. Write 6,07,45,120 in words.
7. Two parallel lines are cut by a transversal. If one interior angle is 120 degrees, find the other interior angle on the same side.
8. Make a frequency table for: 2, 3, 3, 2, 4, 3, 2, 4.

PM SHRI KENDRIYA VIDYALAYA TIKAMGARH

AUTUMN BREAK HOLIDAY HOMEWORK

SCIENCE | SESSION 2026–27

CLASS VII – SCIENCE

Important Instruction: Complete all Autumn Break Holiday Homework in your **regular Science notebook/copy**.

General Instructions

1. Complete all written work neatly and independently.
2. Draw diagrams wherever required and label them clearly.
3. Complete the chart-paper drawing topic given below. Use a suitable title, labels and colours.
4. Submit the completed homework after the autumn break.

A. Written Work – Answer all 10 questions

1. How does science help us understand and solve problems in everyday life? Give two examples.

2. What are acids, bases and neutral substances? Give two examples of each.

3. What is an indicator? Name one natural indicator and explain how it is used.

4. Draw a labelled electric circuit containing an electric cell, a switch, a bulb and connecting wires.

5. What is the difference between an electrical conductor and an insulator? Give three examples of each.

6. Write four differences between metals and non-metals.

7. Differentiate between physical changes and chemical changes with two examples of each.

8. What is rusting? State two conditions that help iron rust.

9. What is adolescence? Mention four healthy habits that are important during this stage.

10. Why is personal hygiene important during adolescence? Write four points.

B. Creative Work – Science Chart on Chart Paper

Prepare a colourful chart on **“Electricity in Everyday Life”** showing a simple electric circuit, common electrical appliances, and three electrical safety rules.

Presentation: *Write your name and class on the back of the chart. Keep your work clean, clear and scientifically correct.*

PM SHRI KENDRIYA VIDYALAYA, TIKAMGARH

AUTUMN BREAK HOLIDAY HOMEWORK
SESSION 2026–27

Subject: Artificial Intelligence (AI) **Class:** VII
Name: _____ **Roll No.:** _____**Section:** _____

General Instructions

1. Complete all the activities neatly and creatively.
2. Use A4 sheets or a project file wherever required.
3. Draw colourful pictures and paste relevant illustrations.
4. Write answers in your own words.
5. Submit the completed homework after the autumn break.

Section A: Written Work

Q1. Answer the following questions.

1. What is Artificial Intelligence (AI)?
2. What is the difference between human intelligence and artificial intelligence?
3. What is Machine Learning? Explain with one example.
4. What is a chatbot? Name any two AI chatbots.
5. What is Natural Language Processing (NLP)?
6. How is AI used in education?
7. Write any three advantages and three disadvantages of AI.
8. Why should we not share personal information with AI tools?

Section B: Activity-Based Learning

Activity 1: AI Around Me

Observe your surroundings and identify five applications of AI that you use or see in everyday life.

S. No.	AI Application Where Is It Used?	How Does It Help Us?
1.	Voice Assistant Mobile phone	Answers questions
2.		
3.		
4.		
5.		

Activity 2: AI Poster Making

Prepare a colourful poster on any ONE of the following topics:

- Artificial Intelligence: The Future Is Here
- AI for a Better World
- Use AI Responsibly
- Advantages and Disadvantages of AI

Add a suitable slogan and pictures.

Activity 3: Human Intelligence vs Artificial Intelligence

Draw or paste pictures representing humans and AI machines. Write at least five differences between human intelligence and artificial intelligence.

Section C: Creative and Practical Work

Activity 4: Create an AI-Based Idea

Imagine that you are an AI inventor. Design an AI-powered device that can solve a problem at home, school, or in your neighbourhood.

Write the following details:

1. Name of your invention: _____
2. Problem it will solve: _____
3. How it will work: _____
4. Who will benefit from it? _____
5. Draw and colour your invention.

Activity 5: AI in Everyday Life

Choose any ONE AI application, such as a voice assistant, recommendation system, chatbot, or smart camera.

Write a short paragraph of 100–150 words explaining:

- The name of the application.
- How it works.
- Its uses and benefits.
- One precaution we should take while using it.

Section D: AI Quiz Choose the correct answer.

1. Which of the following is an example of AI?

a) A wooden chair
b) A voice assistant
c) A pencil
d) A notebook

2. Which technology helps computers understand human language?

a) NLP
b) Printing
c) Painting
d) Typing

3. Which of the following is a responsible way to use AI?

a) Sharing passwords
b) Copying all answers without understanding
c) Checking AI-generated information
d) Sharing private photographs with unknown tools

4. AI systems learn patterns from data through:

a) Machine Learning
b) Paper folding
c) Handwriting
d) Painting walls

5. Which of the following is a possible risk of AI?

a) Incorrect information
b) Faster calculations
c) Help with learning
d) Assistance with tasks

Enjoy your autumn break and keep exploring the world of Artificial Intelligence.

पीएम श्री केंद्रीय विद्यालय टीकमगढ़

शरदकालीन अवकाश गृहकार्यम्

कक्षा — 7 विषयः — संस्कृतम्

1. मम परिवारः (मेरा परिवार)

अपने परिवार का सुंदर चित्र बनाइए। परिवार के सदस्यों के नाम संस्कृत में लिखिए तथा प्रत्येक सदस्य के विषय में एक-एक संस्कृत वाक्य लिखिए।

2. चित्रं दृष्ट्वा वाक्यानि रचयत (चित्र देखकर वाक्य बनाइए)

किसी प्राकृतिक दृश्य का सुंदर चित्र बनाइए, जिसमें सूर्यः, वृक्षाः, नदी, पर्वताः, पशवः एवं पक्षिणः हों। चित्र के आधार पर संस्कृत में कम-से-कम पाँच वाक्य लिखिए।

3. संस्कृत-सङ्ख्या-चार्टः (संस्कृत संख्या चार्ट)

1 से 20 तक की संख्याएँ संस्कृत में लिखकर एक सुंदर एवं आकर्षक चार्ट बनाइए।

4. मम परिचयः (मेरा परिचय)

अपना परिचय संस्कृत में 8–10 वाक्यों में लिखिए। इसे सुंदर अक्षरों में लिखकर रंगीन बॉर्डर बनाइए।

5. संस्कृत-सूक्ति-चित्रम् (संस्कृत सूक्ति एवं चित्र)

अपनी पसंद का कोई एक संस्कृत श्लोक अथवा सूक्ति लिखिए। उसका हिंदी अर्थ लिखकर उससे संबंधित एक सुंदर चित्र बनाइए।

उदाहरण—

विद्या ददाति विनयम्।

विनयाद् याति पात्रताम्।

पात्रत्वाद् धनमाप्नोति।

धनाद् धर्मं ततः सुखम्॥

हिंदी अर्थ: विद्या से विनम्रता, विनम्रता से योग्यता, योग्यता से धन, धन से धर्म और धर्म से सुख प्राप्त होता है।

निर्देशाः

1. समस्त कार्य A4 शीट अथवा गृहकार्य-पुस्तिका में कीजिए।

2. सभी कार्य साफ-सुथरे एवं सुंदर अक्षरों में लिखिए।

3. चित्रों में रंगों का प्रयोग कीजिए।

4. संस्कृत शब्दों की वर्तनी का विशेष ध्यान रखिए।

5. सभी कार्य स्वयं करने का प्रयास कीजिए।

शरदकालीन अवकाश गृह कार्य।

कक्षा-7 विषय-हिन्दी

प्रश्न 1. प्रतिदिन हिन्दी किताब, समाचार पत्र, कहानी, नाटक उपन्यास कविता, आदि पढ़ने का अभ्यास करो।

प्रश्न- 2. प्रतिदिन 10 नए शब्द (कठिन शब्द) लिखिए।

प्रश्न- 3 आपके क्षेत्र के प्रसिद्ध नृत्य एवं संगीत कौन-कौन से हैं, एवं उन्हें किन-किन अवसरों पर किया जाता है।

प्रश्न- 4 अपने क्षेत्र में गाए जाने वाले कोई दो लोकगीत लिखिए एवं अपने क्षेत्र के प्रसिद्ध संगीतकारों के नाम भी लिखिए

प्रश्न -5 आपके विद्यालय में कथक नृत्य का आयोजन होने जा रहा है। इस कार्यक्रम की सूचना देने के लिए एक विज्ञापन तैयार कीजिए।

PM SHRI KENDRIYA VIDYALAYA, TIKAMGARH
HOLIDAY HOMEWORK (AUTUMN BREAK)

CLASS -VII 2026-27

1. Prepare a mine map of chapter the story of Indian farmers
2. Prepare the timeline of important events from the 6th to 10th century and mark the empire on map.
3. Writer 2 slogan on national unity
4. SST QUIZ 20 MCQ chapter 1,2,3 part 2.
5. Paste pictures of traditional dance handcraft and festivals which are celebrated in Read and learnt it

Class VII – English (Poorvi)

Chapter: North, South, East, West

Read the chapter carefully and learn the difficult words with their meanings.

Write a summary of the chapter in 100–120 words.

Write the names of the four main directions and draw a compass.

Answer the textbook questions given at the end of the chapter.

Draw a map showing your home, school, market and park, and label the directions.

Write five new words from the chapter and use each in a sentence.

Activity: Draw a colourful postcard related to chapter in English.