

PM SHRI KENDRIYA VIDYALAYA BOWENPALLY

AUTUMN BREAK HOLIDAY HOMEWORK

CLASS IX – MATHEMATICS

Instructions: Complete all the following activities neatly and present your work creatively.

Part A: Mind Maps

Prepare the following mind maps on A4-sized designed sheets.

Part I: Chapters 1 to 8

Chapter 1 – Number Systems

Chapter 2 – Polynomials

Chapter 3 – Coordinate Geometry

Chapter 4 – Linear Equations in Two Variables

Chapter 5 – Introduction to Euclid's Geometry

Chapter 6 – Lines and Angles

Chapter 7 – Triangles

Chapter 8 – Quadrilaterals

Part II: Chapter 8

Propositions and converses

Note: Prepare separate mind maps for each part. Include important concepts, definitions, properties, theorems and examples wherever necessary.

Part B: Mathematical Activities

Complete one activity on each of the following topics in your Mathematics record book.

Coordinate Geometry

Square Root Spiral

Factorisation of Quadratic Expressions

Angles in the Same Segment of a Circle

Angle Subtended by an Arc of a Circle

General Instructions

Complete all activities neatly in the Mathematics record book.

Cover the record book neatly with blue-coloured cover paper.

Decorate the record book using appropriate mathematical symbols and designs.

Use suitable diagrams, figures and examples wherever required.

Ensure that all work is accurate, creative and well-presented.

Submit the completed holiday homework on the first working day after the Autumn Break.

Best wishes!

PGT Mathematics

PM SHRI Kendriya Vidyalaya Bowenpally

CLASS: IX

ENGLISH

AUTUMN BREAK HOMEWORK

1. Complete projects mentioned in the split-up syllabus in A4 Sheets and update Portfolio file
2. Practice reading passages.
3. Grammar practice: prepare ten examples each of:
 - Tenses
 - Modals
 - Determiners
 - Subject-verb concord
 - Reported speech
4. Read a novel and write a book review.
5. PODCAST: Write and record a 3–5 minute imaginary interview with a famous person/sports person.

कक्षा 9वीं

शरद ऋतु अवकाश गृहकार्य 2026-27 (1 से 5 प्रश्न HW Copy me likhiye)

- 1.समास के भेदों को लिखते हुए प्रत्येक के चार-चार उदाहरण लिखें।
2. परीक्षा परिणाम आने के बाद दो मित्रों के मध्य संवाद लिखें।
3. आप छात्रावास में रहते हैं। पाठ्य पुस्तक मंगाने हेतु पिताजी को पैसे मांगते हुए एक पत्र लिखिए।
4. अर्थ के आधार पर वाक्य के भेद लिखिए (परिभाषा के साथ उदाहरण भी लिखिए)
5. एक स्वरचित कविता विद्यालय पत्रिका हेतु लिखिए (A 4 paper)

CLASS IX

AUTUMN BREAK HOLIDAY HOMEWORK

SOCIAL SCIENCE

1. *Written Questions – HW NOTEBOOK*

1What is the importance of the Constitution in a democracy?

2 Explain the major physical divisions of India.

3 What is the difference between weather and climate?

4 Explain the importance of education and health in developing human resources.

Why is food security important for India?

2. *Activity (on A4-size sheet) – Climate Diary*

Observe the weather in your locality for five consecutive days and prepare a climate diary.

Record the daily temperature, cloud cover, rainfall (if any) and general weather conditions.

Draw or paste suitable weather symbols for each day.

Present your observations in a table.

Write a short conclusion describing the weather pattern observed during the five days.

1. *Poster Making – Democracy: The Power of the People (chart paper only)*

Create a poster illustrating the importance of voting, equality, participation and responsible citizenship.

Include the slogan: "Every Vote Counts.

HOLIDAY HOME WORK

CLASS 9TH SCIENCE

PROJECT BASED WORK

A project with detailed points to be included in project are given below. Prepare a beautiful project work on A4 sheet with proper inclusion of photographs graphical presentation, diagrams etc.

Do it in beautiful handwriting using beautiful colors and pens.

Project : Exploring Motion in Our Daily Life

Theme: Motion, speed, velocity, and acceleration

Project type: Individual or group project

Duration: 7–10 days

1. Project Title

“Motion Detectives: Investigating Motion Around Us”

2. Represent motion using distance–time and velocity–time graphs.

Apply the concepts of motion to real-life situations.

3. Project Activity

Problem Statement:

How can we use scientific measurements and graphs to understand the motion of objects around us?

Materials Required:

Measuring tape

Stopwatch or mobile timer

Toy car or rolling ball

Chalk or masking tape

Graph paper

Notebook

Procedure:

Activity A: Investigating Uniform Motion

Mark a straight path of 5 metres.

Move a toy car along the path.

Record the time taken to cover each 1-metre interval.

Repeat the experiment three times.

Calculate the average speed.

Activity B: Investigating Non-uniform Motion

Roll a ball down a gently inclined surface.

Record its position at regular time intervals using video or direct observations.

Compare the distances travelled during equal time intervals.

Discuss whether the motion is uniform or non-uniform.

Activity C: Graphical Representation

Prepare a distance–time graph using the collected data.

If sufficient data are available, prepare a velocity–time graph.

Identify the regions representing uniform and changing motion.

4. Expected Project Output

Students must submit:

A project report with the aim and hypothesis.

Experimental observations in tabular form.

Calculations of speed and average speed.

At least one correctly labelled graph.

Photographs or drawings of the experiment.

A conclusion explaining the observations.

A short reflection on how motion concepts are used in daily life.

5. Real-Life Applications

Students can connect their findings to:

Speed limits and road safety.

Motion of vehicles.

Sports activities.

Elevators and moving escalators.

Walking and running.

Experiment based work

Complete practical number 1 , 2, 7, 9 and 10 in your lab manuals and submit after vacations.