

BRCM GYANKUNJ SCHOOL BAHAL
SUMMER HOLIDAY HOME WORK-2026
CLASS-IX

SUBJECT	ASSIGNMENT
ENGLISH	<p>4 Posters 4 Letters to editors 10 NEWS Headlines everyday 50 New words with sentences Project Work- Our Motherland</p>
HINDI	<p>निर्देश--यह सभी कार्य विद्यालय की प्रैक्टिकल फाइल में करना है। 1- तीन अनौपचारिक पत्र, तीन अनुच्छेद, तीन संवाद, तीन सूचना लेखन कीजिए। 2- उपसर्ग एवं प्रत्यय के 25 25 उदाहरण लिखिए। 3-अलंकार के पांच -पांच उदाहरण लिखिए। 4-अर्थ की दृष्टि से वाक्य भेद के पांच पांच उदाहरण लिखिए। 5-संज्ञा ,सर्वनाम ,विशेषण एवं क्रिया के पांच -पांच उदाहरण लिखिए।</p>
MATHEMATICS	<p style="text-align: center;">Section A – Creative Cover Page</p> <p>Design a colourful cover page on practical file with: Your Name, Class & Section, Subject: Mathematics, School Name . Draw mathematical symbols, graphs, dice, number lines etc.</p> <p style="text-align: center;">Chapter 1: Coordinate Geometry</p> <p style="text-align: center;">Activity 1 – Math Art on Cartesian Plane</p> <p>Plot the following points on a graph paper and join them in order: A(1,1), B(5,1), C(5,5), D(1,5) Identify the figure formed., Colour the figure creatively. Write:Coordinates of all vertices , Length of each side (by counting units)</p> <p style="text-align: center;">Activity 2 – Coordinate Hunt</p> <p>Find coordinates of 10 objects at home/school by imagining a coordinate grid. Example: TV → (3,4), Chair → (1,2) Prepare a small “Coordinate Map of My Room” .</p> <p style="text-align: center;">Activity 3 – Real Life Connection</p> <p>Write 5 uses of Coordinate Geometry in real life:</p>

	<p>GPS, Maps,,Mobile games, Architecture, Navigation etc.</p> <p style="text-align: center;">Chapter 3: Number System</p> <p style="text-align: center;">Activity 1 – Irrational Number Spiral</p> <p>Make a spiral using $\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$, $\sqrt{6}$ on practical</p> <p style="text-align: center;">Activity 2 – Number System Tree</p> <p>Prepare a colourful page showing: Natural Numbers, Whole Numbers, Integers, Rational Numbers, Irrational Numbers Real Numbers Use examples for each category.</p> <p style="text-align: center;">Chapter 7: Probability</p> <p style="text-align: center;">Activity 1 – Coin Toss Experiment</p> <p>Toss a coin 20 times and record results. Find: Number of Heads, Number of Tails, Probability of Head , Probability of Tail</p> <p style="text-align: center;">Activity 2 – Dice Game</p> <p>Roll a dice 30 times and prepare a frequency table. Questions: Which number appeared most? Which number appeared least? What is the probability of getting: Even number, Odd number, Prime number</p> <p style="text-align: center;">Activity 3 – Probability in Daily Life</p> <p>Paste/draw pictures showing probability in real life: Weather forecast, Cricket match, Lottery, Cards, Traffic signals Write 2–3 lines about each. Do End of chapter exercise chapters – 1, 3 & 7</p>
SCIENCE	<p style="text-align: center;">Biology:</p> <p>Part A – Biology Project Work (Compulsory) Prepare a detailed project file (20–25 pages) on the topic: “Cell: Structure and Functions” The project file must include:</p> <ul style="list-style-type: none"> • Cover Page • Index • Introduction • Objectives • Discovery of Cell • Cell Theory • Types of Cells • Structure and Functions of Cell Organelles • Difference between Plant Cell and Animal Cell • Importance of Cell in Living Organisms

- Colored Diagrams
- Interesting Facts about Cells
- Conclusion
- Bibliography

Part B – Activity-Based Learning (do any 2)

Activity 1 – Nutrition Survey

Prepare a 3-day balanced diet chart for:

- A child
- A teenager
- An adult

Also mention:

- Nutrients present in the diet
- Deficiency diseases caused by improper nutrition
- Suggestions for a healthy diet

Activity 2 – Kitchen Biology

Observe your kitchen and prepare a list of:

- 10 food items obtained from plants
- 10 food items obtained from animals

Classify them into:

- Carbohydrates
- Proteins
- Fats
- Vitamins

Activity 3 – Nature Observation Journal

Observe any 5 plants or birds around your home/locality and write:

- Name
 - Habitat
 - Special features
 - Importance in nature/ecosystem
- (Attach drawings or pictures if possible.)

Part c

1. Learn and write all keywords from the completed chapter.
2. Solve all the questions sent on your class group.

CHEMISTRY:

Complete the following homework neatly in your chemistry notebook or assignment file.

1. Write 30 MCQs from Chapter 1.
2. Write and solve all exercise questions of Chapter 1.
3. Prepare an assignment on any three separation techniques given below.
4. Draw pictures of some chemistry laboratory apparatus and add these pages in the assignment.

Suggested Separation Techniques

Technique Used For

1. Filtration Separating insoluble solids from liquids
2. Evaporation. Obtaining dissolved solids from solutions

	<p>3. Distillation Separating miscible liquids 4. Chromatography Separating colors/pigments</p> <p>Chemistry Lab Apparatus to Draw</p> <ul style="list-style-type: none"> • Beaker • Test Tube • Conical Flask • Funnel • Bunsen Burner • Measuring Cylinder • Tripod Stand • Dropper <p style="text-align: center;">PHYSICS :</p> <p>Chapter: Describing Motion Around Us</p> <p>Instructions</p> <ul style="list-style-type: none"> • Complete all work neatly in your physics notebook. • Draw diagrams using pencil only. • Maintain proper heading and date. • Submit homework after summer vacation. <p>Written Work</p> <ol style="list-style-type: none"> 1 Solve all exercise questions of the chapter “Describing Motion Around Us”. 2 Solve 20 numerical questions based on: <ul style="list-style-type: none"> • Distance and Displacement • Speed and Velocity • Average Speed • Uniform and Non-uniform Motion 3 Solve 10 numerical questions based on Equations of Motion. 4 Draw a Mind Map on the topic Motion. 5 Practice drawing and interpreting simple distance-time graphs. <p>Projects / Activities</p> <ol style="list-style-type: none"> 1 Make a chart presentation on: <ul style="list-style-type: none"> • Uniform Motion • Non-uniform Motion 2 Collect and paste real-life pictures/examples of different types of motion in a scrapbook or chart sheet.
SOCIAL SCEINCE	Q1. Make a Project File on ONE following topic with the help of your textbook, diagram, maps, newspaper cutting, Internet etc. [Minimum 15 Pages]

1. Disaster management

Q2. Complete the following activities:-

Theme: Our Changing Earth & Human Connections

Task 1: The 'Nature Detective' Journal (Real-Life Connect)

Observe your neighborhood, a local park, or your hometown during the holidays. Identify at least three signs of weathering, erosion, or deposition (e.g., cracked pavements, soil washed away after rain, or silt accumulation).

*** Action: Take a photograph or draw a sketch of each observation.**

*** Analysis: Write a short paragraph for each, explaining which natural force (water, wind, or temperature) caused it.**

*** Solution: Suggest one 'Green Fix' to prevent further damage.**

Task 2: The Tectonic Time-Traveler (Interdisciplinary Math/Geo)

Tectonic plates move at an average speed of approximately 2.5 cm to 5 cm per year.

*** Calculation: Using the speed of 4 cm/year, calculate how many meters a plate would move in:**

- 1. 500 years**
- 2. 1,000 years**
- 3. 1,000,000 years (1 million years)**

*** Mapping: On a world map, identify the Himalayas and the Mid-Atlantic Ridge. Write a brief note on how this 'slow movement' created these massive landforms.**

Task 3: Disaster Management Blueprint (Life Skills)

Prepare a 'Family Emergency Plan' for a natural disaster common in your region (e.g., Earthquake, Flood, or Heatwave).

*** Create a Leaflet: Include a list of Do's and Don'ts.**

*** The Go-Bag: List 10 essential items you would pack in an emergency kit.**

*** Contact Tree: Design a simple flowchart showing who to contact (Emergency services, neighbors, relatives).**

Task 4: Landforms & Livelihoods (Socio-Economic Study)

Pick one of the following landforms: Mountains, Plains, or Coastal Areas. Research and create a visual collage or a 2-page report covering:

	<p>* Occupations: How do people earn a living there?</p> <p>* Challenges: What natural risks do they face?</p> <p>* Culture: How does the landform influence food and clothing?</p> <p>Task 5: Creative Expression (Art Integrated) Create a 3D Model or a Detailed Poster on one of the following:</p> <p>* The Layers of the Earth (Crust, Mantle, Core)</p> <p>* The Three Types of Plate Boundaries (Convergent, Divergent, and Transform)</p> <p>* The Glacial Cycle: Showing how a glacier carves a valley.</p> <p>Task 6: Critical Thinking (Short Essay) Write a 200-word argumentative response: 'Are Natural Disasters always harmful, or can they have positive long-term effects on the Earth's geography?'</p> <p>Submission Guidelines:</p> <p>* Format: Use an A4 size folder or scrapbook journal.</p> <p>* Creativity: Use colors, maps, and newspaper clippings.</p> <p>* Authenticity: Hand-written work is preferred.</p>
AI	<p>1. Write 15 Python Programs in a Practical File.</p>