# JAIN BHARATI MRIGAVATI VIDYALAYA HOLIDAYS HOMEWORK 2025-26 CLASS: IX ENGLISH

## 1. "The Etymology Expedition"

Trace the etymological roots of 10 common English words (e.g., democracy, technology, serendipity, quarantine). Create a visually appealing "Etymology Map" that shows the journey of each word through different languages and cultures, highlighting key changes in meaning over time.

#### 2. "Dear Future Self"

Write a letter to your future self (one year from now). Reflect on your hopes, dreams, and goals for the coming year. Include advice and encouragement for your future self-based on your current experiences and insights.

#### 3. "Reading for Change":

Read a biography of someone who has made a positive impact on society (e.g., Malala Yousafzai, Nelson Mandela, Greta Thunberg).

Write a letter (100-150 words) to the author of the book, expressing your thoughts and feelings about their story and how it has inspired you.

#### 4. "News Analysis"

Choose a current event that interests you and follow it closely over the holidays. Collect 3-5 news articles from different sources (print, online, TV). Write a short analysis (150-200 words) comparing the different perspectives presented in the articles and identifying any biases or gaps in coverage.

#### 5. "Community Storytelling"

Interview a member of your community (e.g., a family member, a neighbour, a local business owner) about their life experiences, their challenges, and their hopes for the future. Write a short story (200-250 words) based on their story, focusing on capturing their unique voice and perspective.

- 6. Prepare a colourful and presentable chart on Reported Speech.
- 7. Read and revise all the topics covered in April and May.

NOTE: Do your homework in A 4 size sheets, add them to your portfolio and submit on the reopening day.

HAPPY HOLIDAYS!

ग्रीष्मकालीन गृहकार्य कक्षा – नौवीं विषय – हिंदी

- 1. निम्नलिखित में से किसी एक महान व्यक्तित्व के जीवन और योगदान पर आधारित एक परियोजना कार्य तैयार करें —
- (क) डॉ. ए.पी.जे. अब्दुल कलाम
- (ख) मुंशी प्रेमचंद
- (ग) कल्पना चावला
- 2. पाठ आधारित रचनात्मक कार्य "दो बैलों की कथा" पाठ पढ़कर एक चित्र या कॉमिक स्ट्रिप बनाइए जो यह दिखाए कि अगर बैल बोल सकते तो वह क्या कहते? (भाषा में कल्पना और व्यंग्य हो सकता है)
- 3. काव्य लेखन (My First Poem!) "प्रकृति" या "मित्रता" विषय पर चार पंक्तियों की अपनी पहली कविता लिखिए। चित्रों से सजाएं।
- 4. समाचार संकलन (News Collection) समाचार पत्र या टीवी से हर सप्ताह 2–3 प्रमुख समाचार एकत्र करें और उनमें प्रयुक्त 5 कठिन शब्दों का अर्थ भी साथ में लिखें। (कुल: 10 समाचार + 50 शब्दार्थ)
- 5. ''अपने गाँव या शहर की किसी अनोखी बात—जैसे कोई परंपरा, त्यौहार, प्रिसद्ध स्थान, या व्यक्तित्व—पर एक लेख लिखिए, जिसे विद्यालय पत्रिका में प्रकाशित किया जा सके।''
- 6. पाठ ' ल्हासा की ओर' पढ़िए एवं पाठ की शैली और भावों को ध्यान में रखते हुए अपने किसी प्राकृतिक स्थल (जैसे–हिल स्टेशन, झील, या जंगल सफारी) की यात्रा का वर्णन कीजिए।

## CLASS IX SUBJECT - MATHEMATICS

# 1. Project Work (Choose Any One)

Prepare a project (3–5 pages) on any one of the following topics:

- **Mathematics in Architecture:** Explore how geometry is used in famous monuments (e.g., Taj Mahal, Eiffel Tower).
- **Mathematics in Nature:** Study symmetry, patterns in flowers, shells, honeycombs, etc.
- **Mathematics in Art:** Explore concepts like tessellation or the golden ratio in famous artworks.
- Math and Sports: Use statistics to compare performance of cricket teams or players.

Include pictures, diagrams, and proper explanation.

# 2. CLICK ON THE LINK GIVEN BELOW AND COMPLETE THE ASSINGMENT

https://drive.google.com/drive/folders/1F1KUOkAHLfaIrriUcG4JJfBxn8U2-D2J?usp=sharing

#### **†** Instructions:

- Use an A4-sized notebook or file for written work.
- Decorate your project neatly and label diagrams clearly.
- Submit all work on the first day after holidays.

# HOLIDAY HOMEWORK SCIENCE CLASS- IX

#### PHYSICS/CHEMISTRY

1.Imagine you're a scientist designing a cooling system for a space station. Based on what you've learned about evaporation and condensation, suggest one method that could be used to keep astronauts cool in space.

2.Make a **comic strip or poster** that shows the life of a water molecule as it goes through all three states (solid, liquid, gas) during the water cycle.

Use speech bubbles and diagrams to explain each transition (melting, evaporation, condensation, freezing).

- 3.Perform any **one** activity using household items to demonstrate a change in the state of matter:
  - Melting of ice
  - Boiling of water
  - Condensation on a cold glass surface Instructions:
  - Record your observations.
  - Identify the physical change involved.
  - Explain the process using the kinetic theory of matter.
  - Draw diagrams of your setup.
- 4.Use a toy car or ball, a ruler/tape, and a stopwatch (phone).
  - Mark distances (0 m, 1 m, 2 m...) on a floor.
  - Let the toy move and record time taken to reach each point.
  - Create a distance-time graph.

#### **Submit:**

- A table of distance vs. time
- Graph (distance on Y-axis, time on X-axis)
- Conclusion: Was the motion uniform or non-uniform?

#### 5. Solve these

- i) A car covers 50 m in 5 s and then 75 m in the next 5 s. What is its average speed?
- ii) A body is moving with an acceleration of 3 m/s<sup>2</sup>. It starts from rest. Find:
  - O Speed after 10 seconds
  - o Distance covered in 10 seconds
- iii) A train moves with a velocity of 36 km/h. It is stopped by applying brakes producing uniform acceleration of  $-2 \text{ m/s}^2$ . How long will it take to stop?

iv) A body travels 50 m in 5 seconds and then stops for 2 seconds. What is the total average speed?

#### **BIOLOGY**

- 1. Make a model of a Plant or Animal Cell (3D). Use clay and recycled materials to show cell organelles. Label and explain their functions too.
- 2. Show how seeds germinate under light/dark, wet/dry conditions. Record daily growth.
- 3. Give reason for the following
  - ➤ Raisins swell when kept in water overnight
  - ➤ Plants wilt when not watered for a few days
  - ➤ It is advised not to add too much salt to pickles or salads
  - > Soaking vegetables like brinjal or ladyfinger in salt water helps in removing insects
  - > Our fingers appear wrinkled after staying in water for a long time.
  - > Drinking seawater is dangerous for humans, even though it contains water.
  - > Plant roots absorb water from the soil.

# JAIN BHARATI MRIGAVATI VIDYALAYA SESSION-(2025-2026) CLASS -IX (ARTIFICIAL INTELLIGENCE ) HOLIDAY HOMEWORK

NOTE :-All the following activities are part of the internal assessment. For this student will be assessed out of 20 marks .Do the given activities in AI Fair notebook.

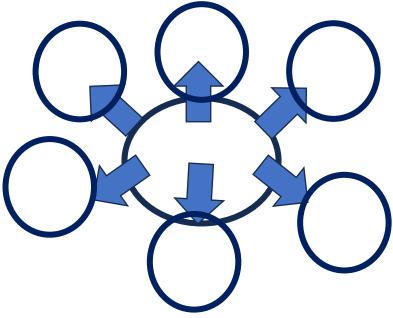
#### **Activity 1:**

#### Write a letter/ an email to future self

- 1. Imagine your future in the next 10 years (related to AI).
- 2. Type a letter or an email to your future self about what you want to see in the future or what you want to remind to your future.
- 3. The following points can be included in letter/email:
  - a. Start with your interests, hobbies, and skills.
  - b. Relate how AI can help you
  - c. Write about your career you want to pursue and how AI will make an impact on that
- 4. Save the letter/email in PDF format.

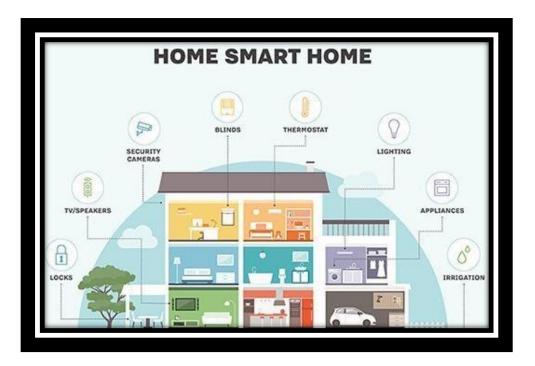
#### **Activity 2:**

How do think Artificial intelligence can help you as you go about your daily life? Fill in your ideas below:



#### **Activity 3:**

As you know, a smart home is a house that has AI enabled devices like virtual assistant, CCTV cameras, GPS tracker and Biometric locks. This home is also able to save resources like power and water.



Now write any five features that you would like to be part of a smart home . Also give the reason why you want to add the feature in the smart home .

### Activity-4

Poster Making -Job Advertisement for 2029!

Here's what you have to do:

• Search for current and emerging trends in employment to make a Future Job

Advertisement.(Use

A4 sheet for creation of Job Advertisement)

- The job description is for a job which will exist ten years from now, i.e. the current date.
- To help you, the job advertisement must include the following information

# **Analysis**

List the kinds of futuristic job opportunities that would these jobs?

be available for you?

Write the skills you will require to do

ग्रीष्मावकाशस्य गहकाययम् कक्षा - नवमी ववषय: - संस्कृतम्

- \* के षाञ्चित्पचि पत्राणाम् रिक्तस्थानानन मचजूषा-सहायतया परूयत।ू
- \* पचि .चित्रं दृष््वा पचि . पचि वाक्यानन संस्कृतभाषायां लिखत ।
- \* ननम्नशब्दरूपाणण लिखत स्मित ि . मननि, नदी ,अस्मद् ,यष्मद््रि , ककम्- (त्रत्रषिु लिङ्गेषिु)
- \* ननम्नधातरूपाणणि लिखत स्मित ि . अस्, भू, गम्, दृश्, वस् (पचि िकािेषु पिस्मैपदे )सेव् ,िभ् ( ि , . ि्िकािेट्ट ) (आत्मनेपदे)