

SAINIK SCHOOL GOAPLGANJ
SUMMER VACATION ASSIGNMENT: 2025-26

CLASS-IX

SUB-ENGLISH

1. Choose a novel or a story book of your own choice. Read the book over the summer vacation and write a comprehensive book review in 200-250 words analyzing the plot, characters, themes, and your personal reflection on the story.

How to do- The review is to be written in 250-300 words keeping in mind the given aspects:

- a) About the Book
- b) About the Writer
- c) Summary
- d) Favourite character (s)
- e) Analysis

2. Depict the following poems from your Book- Beehive in a creative manner as an artistic representation.
a. The Road Not Taken
b. Wind

How to do- Use your imagination to convert the poem in an artistic representation i.e collage making with pictures from magazine or newspapers. The presentation should be self-explanatory.

Where to do –A4 Size sheets

Parameters for Assessment -Relevance to content, creativity and presentation

3. Convert the prose of NCERT Book ‘**The Lost Child By Mulk Raj Anand**’ into a creative poem

How to do-The poem should include all the aspects of Evelyn’s journey from being a non- entity to an epitome of inspiration for all other children like her. The poem should be of 4 stanzas.

Parameters for Assessment-Originality, creativity and imagery

4. Design your own newspaper to be presented on the Activity Board of your Class.

How to do- The newspaper should have five sections

- a. Facts and figures of English language
- b. Creative Corner- Your classroom poetry or story
- c. Quotes- By famous poets with their names
- d. Entertainment
- e. Games & Puzzle- based on tenses, verbs, prepositions or conjunctions. (Any one) For example Snakes & Ladder on prepositions.

Where to do- A4 Size sheets (5 pages)

Parameters for Assessment- Quality of content, originality and presentation

5. **Write an article and a self composed poem for your school magazine on any topics of your choice.**

विषय = हिंदी

- 1) 'उपसर्ग' क्या है ? उसके भेदों को लिखिए । दस उदाहरण लिखिए ।
- 2) 'प्रत्यय' क्या है ? उसके भेदों को लिखिए । दस उदाहरण लिखिए ।
- 3) 'समास' की परिभाषा और उसके भेदों उदाहरणसहित लिखिए ।
- 4) अर्थ के आधार पर वाक्य के कितने भेद हैं ? भेदों की परिभाषा लिखिए ।
- 5) बाढ़ आने से कई गाँव जलमग्न हो गए हैं । दो मित्र उनकी सहायता के लिए जाना चाहते हैं । उनके बीच हुए संवाद का लेखन कीजिए ।
- 6) अनुच्छेद लिखिए ;
 - i) प्रगति के पथ पर बढ़ता भारत ii) जीवन मूल्यों की बढ़ती आवश्यकता ।
- 7) रेल में यात्रा करते समय आपका सामान चोरी हो गया था । खोए हुए सामान की जानकारी देते हुए सुरक्षा आयुक्त, मंडल कार्यालय नई दिल्ली को लगभग 100 शब्दों में एक पत्र लिखिए ।

SUB: SCIENCE

TITLE- "MATTER MYSTERIES AROUND US"

Did you know that everything around you — your water bottle, the perfume you smell, or the steam from your tea — is a mystery waiting to be explored? Investigate the fascinating behaviors of matter in its different states. Through hands-on, fun-filled activities, you'll discover how matter changes, spreads, cools, and even disappears! Complete a project covering following aspect mentioned below:

AIM

To understand the characteristics and behavior of matter through creative experiments involving changes of state, diffusion, and evaporation.

ACTIVITY DESIGN

Transparent glass or plastic jars, Food colours or ink, Perfume or air freshener, Camphor or naphthalene balls, Balloon, string, peas/chickpeas, Spoon, ice cubes, warm water, Steel or plastic containers, Rubber sheet, tape

STEPS

Activity 1: Diffusion and osmosis Race!

Aim: To observe the diffusion of solids and liquids. To observe osmosis in living organisms

Steps:

- Take two transparent glasses. Fill both with water — one with warm water, the other with cold.
- Add a drop of ink or food colour gently to both. Observe which spreads faster.
- Record the time taken in both.
- Take a few raisins and put in water. Observe it after 8-9 hours and write your observations regarding shape, size and process in raisins. Add more examples from your day to day lives.
- Record all observations in a tabular format in an assignment folder

Activity 2: The Vanishing Act

Aim: To observe sublimation and evaporation.

Steps:

- Place a camphor or naphthalene ball in a dish and keep it open for a week. Observe its size daily.
- Pour perfume or acetone on your palm. How does it feel? Why?

Activity 3: Solid, Liquid or Gas? – Make a Movement Jar

Aim: To demonstrate particle arrangement in different states.

Steps:

- Take a transparent jar. Put chickpeas in it.
- Cover with a rubber sheet tied tightly.
- Sew a string to the center of the sheet.
- Shake the string slowly (for solids), moderately (for liquids), and vigorously (for gases).

- Observe how the peas move. Relate it to particle movement in states of matter.

Activity 4: Ice Magic – How Heat Changes Matter

Aim: To observe melting and boiling.

Steps:

- Take ice in a metal container and place a thermometer in contact.
- Note temperature at which ice melts completely.
- Continue heating and observe when it starts boiling.
- Record all observations in a tabular format in an assignment folder

You can complete your Project by answering the following questions:

1. What did you observe when the ink was added to warm and cold water? Which diffused faster and why?
2. What happened to the camphor/naphthalene after a few days? What does this indicate?
3. Why does your palm feel cold after applying perfume or acetone?
4. What does the jar experiment teach you about the movement of particles in solids, liquids, and gases?
5. At what temperature did ice melt and water boil? Did the temperature remain constant during the change of state?
6. Explain how evaporation causes cooling, using any one example from the activities.
7. List five real-life situations where you notice change of state or diffusion happening around you.

SUB: SOCIAL SCIENCE (PROJECT WORK)

Flood Disaster in India

Synopsis:

1. Acknowledgement
2. List of Contents
3. Introduction
4. Definition of Flood
5. Types of Flood-(a) Riverine Flood (b) Flash Flood & (c) Coastal Flood
6. Flood Prone Areas in India (on the Map of India)
7. Causes and Effects of Flood in India
8. Structure of Indian Disaster Management System
9. Preparedness and Mitigation-Structural and Non-structural Measures
10. Role of Community in Relief and Rescue Operation during Flood.
11. Conclusion
12. Bibliography

Method to Complete the Project:

1. Collect relevant data.
2. Analyse them.
3. Draw inferences.
4. Submit your **handwritten** Research Work in about 16-17 **A4** size paper post vacation.
5. Ensure 100% accuracy and originality.

Rubrics for Assessment:

| Sr No | Aspects | Marks |
|-------|-----------------------------------------|----------|
| (a) | Content accuracy and Originality | 2 |
| (b) | Competencies exhibited and Presentation | 2 |
| (c) | Viva-Voce | 1 |
| | Total | 5 |

SUBJECT: MATHEMATICS

1. Find the remainder (without division) on dividing $f(x)$ by $(x - 2)$ where $f(x) = 5x^2 - 7x + 4$
2. FACTORISATION
 $x^3 + 2x^2 - 5x - 6$
3. $2x^3 + x^2 - 13x + 6$
4. $2x^3 + 3x^2 - 9x - 10$
5. Find the value of the constants a and b , if $(x - 2)$ and $(x + 3)$ are both factors of the expression $x^3 + ax^2 + bx - 12$.
6. If $(x + 2)$ and $(x + 3)$ are factors of $x^3 + ax + b$, Find the values of a and b .
7. If $(x + 2)$ and $(x - 3)$ are factors of $x^3 + ax + b$, find the values of a and b . With these values of a and b , factorize the given expression.
8. If $\sqrt[3]{3} = 1.7323$, then find the value of: $27 - 3\sqrt[3]{75} - 5\sqrt[3]{48} - 2\sqrt[3]{108}$.
9. The coach of a cricket team buys 3 bats and 6 balls for Rs.3900. Later, she buys another bat and 3 more balls of the same kind for Rs.1300. Represent this situation algebraically and geometrically.
10. The cost of 2 kg of apples and 1kg of grapes on a day was found to be Rs.160. After a month, the cost of 4 kg of apples and 2 kg of grapes is Rs.300. Represent the situation algebraically and geometrically.
11. Form the pair of linear equations in the following problems, and find their solutions graphically.
 - (i) 10 students of Class X took part in a Mathematics quiz. If the number of girls is 4 more than the number of boys, find the number of boys and girls who took part in the quiz.
 - (ii) 5 pencils and 7 pens together cost 50, whereas 7 pencils and 5 pens together cost 46. Find the cost of one pencil and that of one pen.
12. Plot the following polynomials
 - a) $5x - 4y + 8$
 - b) $7x + 6y - 9$
 - c) $9x + 3y + 12$
 - d) $18x + 6y + 24$
13. Convert 10 Non terminating recurring decimal expression
14. Draw 05 irrational number on a number line with its justification.
15. The difference between two numbers is 26 and one number is three times the other. Find them.