



# Yuvashakti Model School

इकोइकोअ बाल इकाइकोलो:

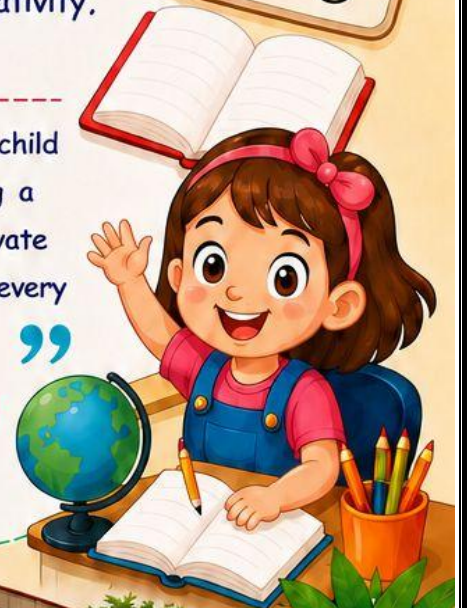
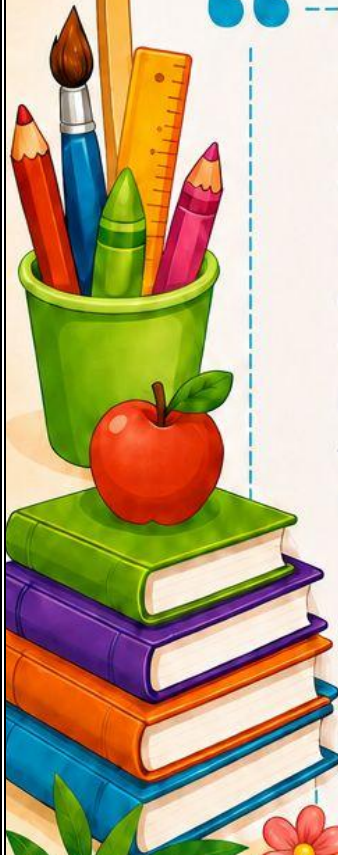
# SUMMER HOLIDAY HOMEWORK

Dear Parent

The much-awaited summer holidays have arrived! With the bright sunshine and rising temperatures, it is a wonderful time to relax, unwind, and spend quality moments with your child at home. To make this period both enjoyable and meaningful, we have planned a range of creative activities for your child. These activities aim to encourage learning & strengthening your child's creativity, confidence, and curiosity.

We encourage you to support and guide your child as they complete these activities, ensuring a balance of learning, play, and rest. Do motivate them to express their ideas freely and enjoy every moment of this learning journey.

*Wishing you and your family  
a safe, happy, and refreshing  
summer break!*





## SUMMER BREAK



Spend quality time with family and friends.



Pursue your hobbies and interest.



Sharpen your skill and develop new ones.



Avoid playing in the sun, Drink plenty of fluids like water, juices.



Help your parent in household chores.

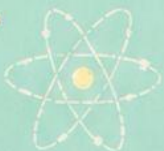


Summer vacation is the time to learn and enjoy. So spend this holidays creating a nurturing and stimulating environment filled with **fun, frolic** and learning.



## GENERAL INSTRUCTIONS:

- **Revise the syllabus covered so far in each subject.**
- **All the subject holiday homework should be done according to the instructions given.**
- **The holiday homework would be graded.**
- **The assignments should be submitted to the respective subject teachers in the first week of July.**
- **Parents are requested to encourage your ward to do the assigned holiday homework Independently.**
- **Work must be original and should not involve plagiarism.**



A+



**CLASS - IX**  
**ENGLISH**  
**HOLIDAYS HOMEWORK**  
**CLASS - IX**  
**ENGLISH**

**Q1. Notice Writing**

(a) You are Ananya/Arjun, Secretary of the 'Green Earth Club', Padampur. The club has decided to organize a Tree Plantation Drive in the local park on Sunday, 31st May 2026. Write a notice in about 50 words informing all club members about the event and requesting them to participate. Give details of time, venue, and things to bring.

(b) You are Rohan/Meena, Secretary of Sunshine Apartments, Resident Welfare Association, Padampur. The water supply in the society will remain suspended on 28 th May 2026 from 9 AM to 5 PM due to tank cleaning. Write a notice in about 50 words for the residents informing them about the same and advising them to store water in advance.

(c) You are the Cultural Secretary of your school. Draft a notice informing students about auditions for the Annual Day programme.

(d) Your school is organizing an educational trip to a historical place. Write a notice giving details and asking interested students to register.

**Q2. Descriptive Writing**

(a) Describe your favourite festival in about 200-250 words and how it is celebrated in your family and community.

(b) The Day My Shadow Spoke....

Imagine your shadow suddenly came to life and started talking to you for one whole day. Describe your experience with your shadow in about 200-250 words. What did it say? What did you do together? How did you feel when it left?

Note: 1. Revise all the work done in class.

2. Do Q1 and Q2 in fair English Grammar register.

**PROJECT WORK**: Portfolio Making

Topic: "The Person I Admire the Most"

*Instructions:*

Make an attractive and informative portfolio on A4 size sheets.

You will be awarded marks on the basis of original content and presentation.

**PORTFOLIO FORMAT**

Page 1: Cover Page

Title: "The Person I Admire the Most"

Name of the Student:

Class & Section:

Roll Number:

(Paste the picture of the person you admire.)

Page 2: Index

(List all topics with page numbers.)

Page 3: Introduction

Who is the person you admire?

Why did you choose this person?

Page 4: Background

Basic details – early life, family, etc.

Important events in his/ her life.

Page 5: Achievements

Why is the person well-known? Write 4-5 points.

Page 6: Qualities You Admire

Write at least 4–5 qualities.

Page 7: Life Lessons

What have you learned from this person?

How can these lessons help in your life?

Page 8: Personal Connection

How does this person inspire you?

Page 9: Acknowledgement

Write a few lines thanking your Principal, English teacher and parents for their guidance.

## हिंदी

### सामान्य निर्देश:

- क) सभी प्रश्नों के उत्तर अपनी उत्तर पुस्तिका में करें।
- ख) प्रश्नों के उत्तर साफ, सुंदर व स्पष्ट लेखन में होने चाहिए।
- ग) पोर्टफोलियो सुंदर व आकर्षक होना चाहिए।

### प्रश्न 1. अपनी हिंदी व्याकरण पुस्तक से किन्ही पाँच विषयों पर 15 पृष्ठों की एक पोर्टफोलियो तैयार करें।

पोर्टफोलियो के लिए संकेत बिंदु निम्न प्रकार हैं:

- संज्ञा व उसके भेद
- सर्वनाम व उसके भेद
- वर्तमान सामाजिक परिवेश में अनुशासन, पर्यावरण संरक्षण, समय का सदुपयोग अथवा डिजिटल शिक्षा जैसे किसी एक समसामयिक विषय का चयन करते हुए लगभग 150 से 200 शब्दों में एक प्रभावशाली एवं विचारपूर्ण अनुच्छेद लिखिए।
- पारिवारिक सहयोग तथा आत्मविकास के अनुभवों का उल्लेख करते हुए अपने मित्र को एक अनौपचारिक पत्र लिखिए।
- उपसर्ग व प्रत्यय अभ्यास कार्य सहित
- मुहावरे अभ्यास कार्य सहित
- संवाद लेखन

### प्रश्न 2. निम्नलिखित प्रश्नों के उत्तर 25 से 30 शब्दों में अपनी उत्तर पुस्तिका (गंगा) में लिखिए।

(गद्य खंड)

#### पाठ 1. दो बैलों की कथा

- क) झूरी के बैलों के नाम क्या थे?
- ख) हीरा और मोती में आपस में कैसा संबंध था?
- ग) झूरी अपने बैलों से किस प्रकार का व्यवहार करता था?
- घ) लेखक ने बैलों के माध्यम से कौन-सा संदेश दिया है?

इ) गया बैलों के साथ कैसा व्यवहार करता था?

## पाठ 2. क्या लिखूँ ?

- क) 'क्या लिखूँ' पाठ के लेखक कौन हैं?
- ख) गार्डिनर के अनुसार लेख लिखते समय विषय की चिंता क्यों नहीं रहती?
- ग) दूर से सुनाई देने वाले ढोल लेखक को मधुर क्यों लगते हैं?
- घ) जो कभी सुधार थे, वे आज दोष कैसे बन जाते हैं?
- इ) लेखक ने जीवन को प्रगतिशील क्यों कहा है?

## (पद्य खंड)

## पाठ 8 रैदास के पद

- क) रैदास जी के जीवन के बारे में 3 वाक्यों में लिखो।
- ख) रैदास जी के कौन से मुख्य विचार थे ? उदाहरण देकर समझाओ।
- ग) "रैदास के पद" में कौन-कौन से सामाजिक मुद्दों का उल्लेख है? किन्हीं दो का वर्णन करो।
- घ) कविता पढ़ने के बाद, आपको कौन सा भाव सबसे अच्छा लगा? उसे 4-5 वाक्यों में लिखो।
- इ) रैदास जी के किसी एक पद की 4 पंक्तियाँ लिखो और उनका भाव अपने शब्दों में बताओ।

## MATHEMATICS

**Note: Do all the questions on the A4 size ruled sheets.**

- 1 Find the value of a and b :  $(24b, 3) = (8, a)$
2. Find the value of  $(64)^{0.16} \times (64)^{0.09}$
3. Simplify :  $(1^3 + 2^3 + 3^3 + 4^3 + 5^3)^{1/2}$
4. Find the value of k, if  $x+1$  is the factor of the polynomial  $X^2 + 3kx - 2 = 0$
- 5 Simplify  $\frac{6-4\sqrt{2}}{6+4\sqrt{2}}$  by rationalising the denominator
- 6 .find the value of linear polynomial  $7x^2 - 4x + 6$  at  $p(-1) + p(2) - p(1)$
7. write 3 solutions of  $2x + y = 7$
8. If  $(2, 0)$  is a solution of the linear equation  $2x + 3y = k$ , then find the value of k
- 9 Draw the graph of  $x + y = 4$  and  $x - y = 2$
10. locate  $\sqrt{10.5}$  on a number line.
11. Factorise  $x^2 - y^2 + 2x + 1$
- 12 .Simplify  $3\sqrt{45} - \sqrt{125} + \sqrt{200} - \sqrt{50}$
13. Express :  $2.\overline{43}$  in the form of  $p/q$ , where  $q \neq 0$
- 14 .Simplify :  $12\sqrt{18} - 6\sqrt{20} - 3\sqrt{50} + 8\sqrt{45}$
15. Find three rational numbers between  $\frac{1}{4}$  and  $\frac{2}{5}$

## SCIENCE

**Note: Do all the questions on the A4 size ruled sheets.**

Q1. A train starts from rest and accelerates uniformly at  $1 \text{ m/s}^2$  for 10 s. Then it moves at constant velocity for 20 s and finally decelerates uniformly to rest in 10 s.

Find:

- (a) Maximum velocity
- (b) Total distance travelled
- (c) Draw velocity–time graph

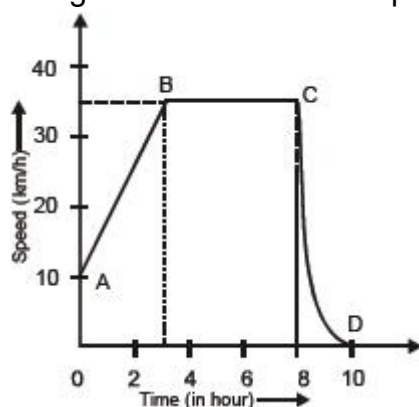
Q2. A car travels from stop A to stop B with a speed of 30 km/h and then returns back to A with a speed of 50 km/h. Find

- (i) displacement of the car.
- (ii) distance travelled by the car.
- (iii) average speed of the car.

Q3. Draw the shape of the distance-time graph for uniform and non-uniform motion of object. A bus of starting from rest moves with uniform acceleration of  $0.1 \text{ m/s}^2$  for 2 minutes. Find

- (a) the speed acquired.
- (b) the distance travelled.

Q4. The graph given alongside shows how the speed of a car changes with time.



- (i) What is the initial speed of the car?
- (ii) What is the maximum speed attained by the car?
- (iii) Which part of the graph shows zero acceleration?
- (iv) Which part of the graph shows varying retardation?
- (v) Find the distance travelled in first 8 hours.

Q5. Directions: In each of the following questions, a statement of Assertion is given and a corresponding statement of Reason is given just below it. Of the statements, given below, mark the correct answer as:

- (a) Both assertion and reason are true and reason is the correct explanation of assertion.
- (b) Both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) Assertion is true but reason is false.
- (d) Both Assertion and Reason are false.

(i) Assertion: An object may acquire acceleration even if it is moving at a constant speed.

Reason: With change in the direction of motion, an object can acquire acceleration.

(ii) Assertion: An object may have acceleration even if it is moving with uniform speed.

Reason: An object may be moving with uniform speed but it may be changing its direction of motion.

Q6. If 20g Of  $\text{CaCO}_3$  dissolved in water to make half a litre of solution assuming density of solution is same as water, the mass percentage of solution so formed is?

Q7. Which amongst the following statement(s) is/are INCORRECT?

- (i) Colloidal solutions are homogeneous mixtures
- (ii) Milk is an example of colloidal solution
- (iii) Colloidal solutions exhibit Tyndall Effect
- (iv) Bending of light by colloidal particles is called Tyndall effect

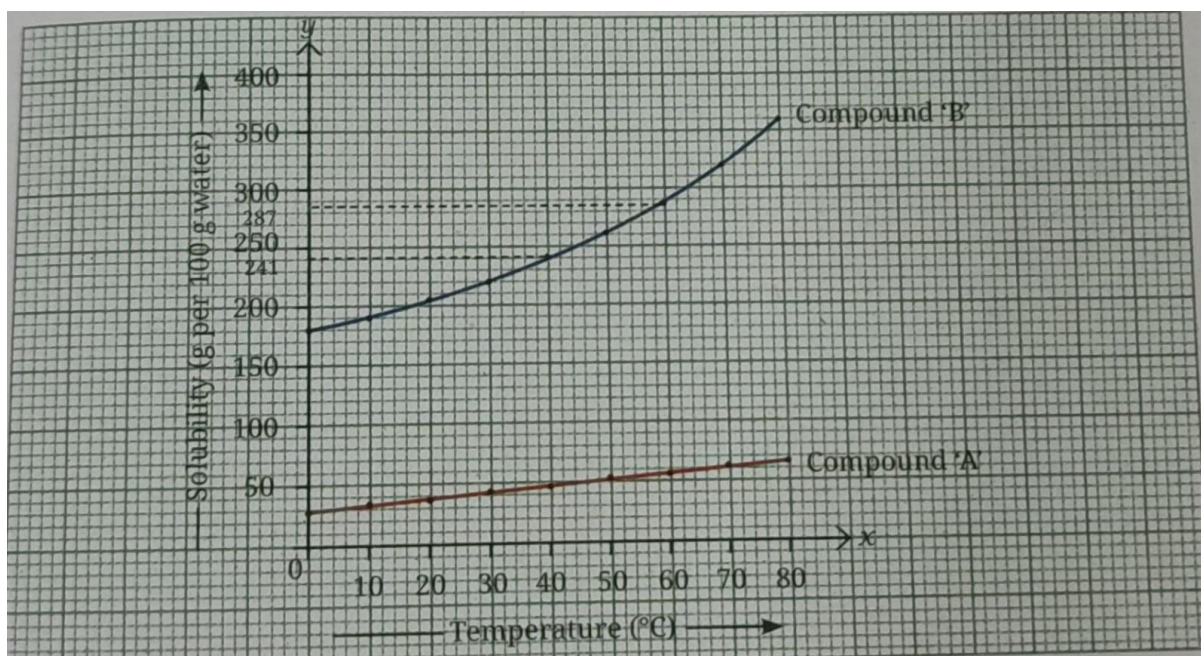
- (1) (i)
- (2) (iii)
- (3) (i), (ii)
- (4) (i), (iv)

Q8. Write Properties of Suspension, Colloidal and Solution.

Q9. Make a table of various types of Colloidal solution, with example and mention Dispersed Phase and Dispersion medium.

Q10. Consider water as the solvent, and compounds 'A' and 'B' as the solutes.

Each substance has a different solubility, A graph of solubility versus temperature is called a solubility curve. The solubility curves for 'A' and 'B' as solutes as shown in figure below. The x-axis shows temperature ( $^{\circ}\text{C}$ ), whereas the y-axis indicates the solubility of the solute in grams per 100 g of water.



Based on the information from the above graph, predict which of the two compounds, 'A' or 'B', will dissolve more in a given amount of water at a given temperature?

Observe above figure and fill in the blanks of the following statements:

- (i) The solubility of compound 'A' in water at  $20^{\circ}\text{C}$  is \_\_\_\_ (less than/more than/similar to) its solubility at  $60^{\circ}\text{C}$ .
- (ii) The solubility of compound 'B' at  $20^{\circ}\text{C}$  is \_\_\_\_ (less than/more than/similar to) its solubility at  $60^{\circ}\text{C}$ .
- (iii) The solubility of \_\_\_\_ increases more than that of \*\* with an increase in the temperature.

What do you think will happen if you make a saturated solution at a higher temperature and cool it slowly? Let us find out!

Q11. Describe the structure and functions of the nucleus. Why is it called the control centre of the cell?

Q12. What are the types of plastids? Write their names and functions.

Q13. Write one functions of each of the following cell organelles.

Q14. Explain the terms.

a) Endocytosis. (b) Plasmolysis (c) diffusion (d) osmosis

Q15. Directions: In each of the following questions, a statement of Assertion is given and a corresponding statement of Reason is given just below it. Of the statements, given below, mark the correct answer as:

- (a) Both assertion and reason are true and reason is the correct explanation of assertion.
- (b) Both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) Assertion is true but reason is false.
- (d) Both Assertion and Reason are false.
- (i). Assertion: Plasma membrane is selectively permeable.
- (ii) Reason: Plasma membrane allows some molecules to pass through it more easily than others.
- (iii). Assertion: Leucoplasts perform photosynthesis.
- (iv). Reason: Chloroplasts store fats, starch and proteins.

### Practical Work

Write following experiment from science lab manual in your Practical file.

Experiment- 1 and 2 – Physics

Experiment- 1 and 2 Chemistry

Experiment - 1 and 2 Biology

**Note: Use only blue, black pen for writing and use pencil for diagrams**

### SOCIAL SCIENCE

#### Short Answer Type Questions

1. State any two differences between weather and climate.
2. Why is the troposphere important for human life?
3. Explain the role of nitrogen in the atmosphere.
4. How does altitude affect temperature?
5. Mention two characteristics of the retreating monsoon season in India.
6. Why do coastal areas experience moderate climate?
7. Give two human activities responsible for climate change.
8. Explain how deforestation contributes to floods.
9. State two impacts of global warming on India's climate.
10. Suggest two ways by which individuals can reduce the amount of carbon footprints.

#### Long Answer Type Questions

11. Analyse the causes and consequences of climate change, highlighting its impact on weather patterns.

12. Explain the major causes of floods in India and suggest effective flood management measures.
13. Discuss how urbanisation and industrialisation increase the frequency of floods.
14. Suggest sustainable strategies at individual, national, and global levels to reduce climate change impacts.
15. Explain the mechanism of the southwest monsoon in India with suitable reasons for its importance.
16. Draw the Structure of the Atmosphere.
17. Draw the diagram Standard Rain Gauge.

## **KAUSHAL VIKAS PROJECT**

Topic: Agriculture and Terrace Farming

Theme

Grow Green, Live Clean

Introduction

Agriculture is the backbone of our country and plays an important role in providing food, employment, and raw materials. With increasing population and decreasing open land, modern methods such as terrace farming and urban gardening are becoming very important. Terrace farming helps us grow plants in small spaces like rooftops, balconies, and terraces while protecting the environment.

This holiday homework aims to help students understand:

- The importance of agriculture
- Sustainable farming practices
- Terrace farming techniques
- Plant care and responsibility
- Documentation through a creative portfolio

Activity 1: Understanding Agriculture

Students must write in their notebook or portfolio:

1. Define Agriculture.
2. Explain the importance of agriculture in India.
3. Mention different types of farming practiced in India.
4. Write short notes on:
  - Organic farming
  - Terrace farming
  - Kitchen gardening
5. Answer the following:
  - Why is water conservation important in farming?
  - How can terrace farming help cities?
  - What are the benefits of growing plants at home?

## Activity 2: Terrace Farming Project

Students will create a small terrace garden/farming setup at home using available space such as terrace, balcony, rooftop, or window area.

Materials that can be used:

- Old bottles
- Buckets
- Pots
- Plastic containers
- Coconut shells
- Recycled boxes

Suggested plants:

- Coriander
- Mint
- Tomato
- Chili
- Spinach
- Fenugreek
- Tulsi
- Any flowering plant

Instructions for Students

Step 1: Planning

- Select a place with sunlight.
- Arrange pots or recycled containers.
- Fill them with soil and compost.

Step 2: Sowing

- Sow seeds or plant saplings.
- Water them regularly.

Step 3: Observation

Observe the plants daily and note:

- Date of sowing
- Germination
- Plant growth
- Watering schedule
- Changes noticed

Step 4: Photography

Click photographs during:

- Preparation of pots
- Sowing seeds
- Watering plants
- Plant growth stages
- Final terrace garden setup

Activity 3: Portfolio Making

Students must prepare a creative portfolio/project file containing:

- Cover Page

- Index
- Introduction
- Materials Used
- Procedure
- Observation Record
- Photographs Section
- Learning Outcome
- Conclusion

#### Observation Table

Week 1 – Seeds planted

Week 2 – Germination started

Week 3 – Small leaves appeared

Week 4 – Healthy plant growth

#### Guidelines

- Portfolio should be neat and creative.
- Use handmade decorations/charts wherever possible.
- Students are encouraged to use eco-friendly materials.
- Original photographs must be included.
- Proper labeling and captions should be added.

#### Submission Details

- Submit the portfolio after the holidays.
- Viva/interaction may be conducted based on the project.

#### Assessment Criteria

Content & Understanding – 5 Marks

Creativity & Presentation – 5 Marks

Practical Work – 5 Marks

Portfolio Maintenance – 5 Marks

Photographs & Observation – 5 Marks

Total Marks: 25

#### Quote

“Plant a seed today for a greener tomorrow.”