



ADARSH PUBLIC SCHOOL

HOLIDAYS' HOMEWORK (2026-27)

CLASS: IX



GENERAL INSTRUCTIONS:

- All the questions are compulsory.
- The holidays' homework must be done in a very neat and presentable manner.
- The child will be assessed on the basis of presentation, neatness, completion of all the given questions and timely submission.
- Revise all the syllabus covered in the class.
- The homework of all subjects is to be done in respective notebooks or as specified and to be submitted on 1st July 2026.
- Art Integrated Project of all subjects to be done as mentioned and submitted to the class teacher in a clear bag with proper Name, Class & Roll No.

ENGLISH

Do Q1- Q3 in notebook.

1. Compare the teaching styles of Arenla and Onula. Who do you think is a better mentor and why? Support your answer with reference to 'The Pot Maker' in 100 - 120 words.
2. As a student of Class IX, write a formal email to your Principal requesting the arrangement of extra revision classes for all the subjects for the upcoming examinations.
3. Rearrange the following words or phrases to form meaningful sentences:
 - a. hard work / for success / opportunities / creates
 - b. regular exercise / improves / health / mental and physical
 - c. should / we / our parents / respect / always
 - d. the match / yesterday / won / our team
 - e. traffic rules / by everyone / should / be / followed
4. Prepare a colourful 'Travel Guide' on Andaman and Nicobar Islands on 6 to 7 A-4 size sheets providing all the following details:
 - Best time to visit
 - Cuisine
 - Places to visit
 - Hotels & Stays
 - Activities
 - Packages
 - Food, etc
 - Popular tourist attractionsAlso, write information on each topic along with the relevant pictures.

हिन्दी

निर्देश: प्रश्न 1 से 3 व्याकरण की उत्तर पुस्तिका में करें तथा प्रश्न 4 और 5 ए-4 साइज शीट्स पर करें।

प्रश्न 1. हाल ही में आपने किसी रचनाकार की एक कहानी पढ़ी, जिसने आपको बहुत प्रभावित किया। अपने चाचा जी को इस विषय में बताते हुए लगभग 100 से 120 शब्दों में पत्र लिखिए।

प्रश्न 2. महानगरों में ट्रैफिक जाम की समस्या पर दो मित्रों के मध्य संवाद को 100-120 शब्दों में लिखिए।

प्रश्न 3. 'युवाओं में बढ़ता तनाव' विषय पर 100-120 शब्दों में अनुच्छेद लिखिए।

प्रश्न 4. संत रैदास का जीवन परिचय, उनकी रचनाएँ एवं शिक्षाओं के विषय में विस्तारपूर्वक बताते हुए उनकी प्रसिद्ध उक्ति 'मन चंगा तो कठौती में गंगा' से संबंधित कहानी का वर्णन चित्र सहित 4 से 5 पृष्ठों (ए-4 साइज़ शीट्स) पर कीजिए।

कला एकीकृत परियोजना

अंडमान, निकोबार एवं लक्षद्वीप द्वीपसमूह के पर्यटन स्थलों एवं खान-पान से संबंधित जानकारी देते हुए तीन पृष्ठों (ए-4 साइज़ शीट्स) का प्रयोग कर एक आकर्षक विवरणिका (ब्रोशर) तैयार कीजिए।

MATHEMATICS

I. Do the following assignment in Maths register.

1. Check whether the points (3,2), (0,5), (-3,2) and (0,-1) are the vertices of a rhombus or a square?
2. Express 0.272727... in the form of p/q.
3. Without actual division check the following rational numbers are terminating or non-terminating?
a) $\frac{9}{8}$ b) $\frac{11}{270}$ c) $\frac{9}{550}$ d) $\frac{23}{500}$
4. Represent the following numbers on the number line.
a) $\sqrt{5}$ b) $\sqrt{45}$ c) $\sqrt{82}$
5. Find five rational numbers between $\frac{3}{5}$ and $-\frac{4}{7}$.
6. Check whether the points (-a,a), (-a,-a) and $(-a\sqrt{3},a\sqrt{3})$ are the vertices of an equilateral triangle.
7. Locate the points (2,3), (-6,3) and (0,8) on the graph and join them. Find the area of the figure obtained.
8. Check whether the points (3,0), (4,2) and (5,7) are collinear or not.
9. Find the value of quadratic polynomial $p(x) = x^2 - 4x + 10$ if:
a) $x = -1$ b) $x = 2$ c) $x = -\frac{1}{3}$
10. Show the geometrical presentation of the following equations on the same graph and write the pairs of lines which are intersecting or parallel.
a) $2x + 3y = 6$ b) $4x + 6y = 14$ c) $x - 2y = 5$
11. Prove that $\sqrt{2} + \sqrt{3}$ is an irrational number.
12. Draw the graph for $x - y = 1$ and $2x + y = 8$. Shade the triangle between the two lines and $x = 0$

II. ART INTEGRATED PROJECT

Prepare an Art Integrated Mathematics Project on the topic “Square Root Spiral” by it connecting it with the art, culture, traditions, and natural beauty of Andaman and Nicobar Islands.

The following content should be added in a creative manner:

Page 1. Introduction of Square Root Spiral.

Page 2. Mathematical concept used in the construction.

Page 3. Step-by-step construction of the Square Root Spiral using ruler and compass.

Page 4. Use Andaman and Nicobar Island’s cultural elements such as tribes, beaches, festivals, folk art, or traditional designs for decoration and presentation.

III. ACTIVITY

To draw the mirror image of the given geometrical figure in Maths lab file.

Refer this link (https://youtu.be/M_7q_5y8dIY?si=d6J7M4haexQ09UQX)

SCIENCE

I. Answer the following questions after reading the content mentioned below:-

1. During a local marathon in the summer, a medical volunteer named Priya is tasked with preparing rehydration fluids for the runners. She needs to prepare a specific glucose drip for a runner who has collapsed from exhaustion. The doctor instructs her to quickly prepare 300 mL of a 5% m/v (mass by volume percentage) glucose solution. Priya has a large container of pure glucose powder and several bottles of sterile distilled water at her medical station.
 - a) Identify the solute and the solvent in the mixture.
 - b) Calculate the exact mass of glucose powder Priya needs to measure out to prepare 300 mL of the required 5% m/v solution.
 - c) Why is it important for Priya to mix the exact right proportion of glucose and water, rather than just mixing the ingredients randomly?
2. A forensics student is investigating a case of a forged signature on a cheque. The suspect claims that the signature was written using a standard black sketch pen found in the office. The student decides to test the ink. She places a tiny spot of ink from the cheque onto a thinstrip of specialized filter paper. She carefully suspends the paper in a beaker containing a small amount of water, ensuring the ink spot sits just above the water level. After twenty minutes, she observes a beautiful band of blue, yellow, and red streaks climbing up the paper.
 - a) Identify the scientific technique being used by the forensics student to analyze the ink.
 - b) What inference is developed by the student about the black ink which showed colored streaks on the paper?
 - c) Explain the basic principle behind this technique.

- d) Why was it crucial for the student to keep the ink spot slightly above the water level at the beginning of the experiment?
3. Meera is preparing a fresh salad for dinner. She cuts cucumber and tomatoes into a bowl and sprinkles a generous amount of salt over them. She leaves the bowl in kitchen and after an hour she returns and notices that a lot of watery liquid has collected at the bottom of the bowl and cucumber has become soft and shrunk in size.
- Name the scientific process responsible for the release of water from the cucumber cells.
 - What type of solution did the sprinkled salt create around the cucumber cells?
 - What would have happened to the cucumber slices if Meera had placed them in a bowl of pure water instead of adding salt?
4. A young boy, Aryan, scrape his right knee badly while playing football. A thick scab forms, and after a few days, the skin completely heals as new skin cells replace the damaged ones. Around the same time, Aryan's mother gives birth to a baby girl. Aryan's grandmother comments that the new baby has eyes exactly like her father but hair like her mother. Aryan wonders how his skin can perfectly copy itself to heal his wound, while his new baby sister looks like a complex mixture of traits from both parents.
- Which type of cell division is responsible for healing Aryan's scraped knee by replacing damaged cells?
 - How does the number of chromosomes in the newly formed skin cells compare to the original skin cells?
 - Name the type of cell division that produces the gametes in the parents, ultimately leading to the birth of the baby sister.
 - How does the second type of cell division result in the baby, sharing traits from both the parents rather than being an identical copy?

II. ACTIVITY BASED

Draw a concept map showing various organelles of an animal cell and illustrate it beautifully on A4 size sheet.

SOCIAL SCIENCE

I. Answer the following questions and write it in register:

- Trace the roots of democracy in ancient India. Explain the role of Sabha and Samiti in early governance.
- Describe the interior of the Earth with a neat labelled diagram.
- Distinguish between a parliamentary system and a presidential system.
- Explain the significance of regular elections in maintaining democratic values.
- Explain the scope of Social Science by describing Geography, History, Political Science and Economics and show how they overlap in real life.
- Suggest sustainable strategies at individual, national and global levels to reduce climate change impacts.

- g) Describe the formation of coastal landforms by waves and currents. In some countries, such as China, only the ruling party can put up candidates. Voters have to choose between the two candidates put up by the ruling party. No one else has a chance. Is this democracy? If not then explain why?
- h) What are the main features of democracy? Explain any five.
- i) Why do you think most countries prefer representative democracy instead of direct democracy?
- j) Discuss dust storms and their effects in arid regions.

II. Map Work - To be done in cartographic file.

On the Political map of India locate and label the following (use separate maps for every part)

- a) Landslide prone areas
- b) Earthquake prone zones

III. The goal of the Disaster Management is to minimize the impact of disasters.

On the above theme, prepare a project on Disaster Management as per your roll number. You can refer to this link

<https://www.youtube.com/shorts/JCSgXAMziAI>

1. Roll No.: 1-8 **Earthquake**
2. Roll No.: 9-16 **Flood**
3. Roll No.: 17-24 **Fire accidents**
4. Roll No.: 25-32 **Tsunami**
5. Roll No.: 33 and above **Land Slides**

IV. ART INTEGRATED PROJECT

1. Make a creative and an informative project on 8-10 coloured A4 size sheets.
 - a) Compare the geographical features of Delhi and the paired island Andaman and Nicobar.
 - b) Prepare a Pictorial presentation of tribal communities, occupations, tourism, and environmental issues of Andaman and Nicobar Islands.

INFORMATION TECHNOLOGY

Hardcopy of Q1 and 2 to be compiled in IT practical file.

1. Create a two-page document on “AI in classrooms: Boon or Bane for students” and use the following features of Libre Office Writer to:
 - a) Insert your name and class in the header and page number in the footer.
 - b) Set the line spacing to 1.5 and paragraph spacing to Before : 12 pt, After: 6pt.
 - c) Apply different alignments: Left, Center, Right and Justified. Set 1st paragraph with red font colour, 2nd with yellow highlight.
 - d) Insert the relevant pictures in the document.
2. Create a poster on the topic “Screen time vs Green Time” using the features learnt in Libre Office Writer.

3. Complete notes of Communication Skills and Digital Documentation in notebook.

ART INTEGRATION

1. Creative Abstract Art

- Create an attractive Abstract Composition on an A3 size sheet using geometrical shapes, lines, patterns, and vibrant colours. Students may use poster colours, crayons, colour pencils, or sketch pens creatively.
- Focus on balance, colour harmony, and originality.

2. Indian Folk Art Activity

- Make a beautiful artwork inspired by any one Indian Folk Art style such as Madhubani, Warli, Gond, Pattachitra, or Kalamkari on an A3 size sheet.

3. A Scene Composition based on daily life, village life, market scene, festival celebration, nature, or rainy day.

- Focus on proportion, colouring, and neat presentation.

DANCE

- Write name of any 10 mudras along with its picture on A4 size sheet.

MUSIC

- Write the details of raag bhupali including aroh auroh pakad and bandish.
- Write the details of teen taal including egun dugun chaugun.

PHYSICAL EDUCATION

1. Project & Sports File

- Prepare a report of visit to any one of the following:
- Open tournament/ competition (of any game/sports mentioned in CBSE Games)
- Gymnasium/Fitness Centre
- Stadium
- Sports Institution

2. The student will prepare a file on the sports/ game chosen by him/her covering following aspects:

- History of the game/sports (200 words)
- Terminology of the game/sports (any 5)
- Fundamental skills of the game/sports (any 5)
- Rules of the game/sport (any 5)
- Ground/Court/Field specification
- Common injuries of the game/sports (any 3)
- Indian sports personalities/awardees of the game/sports (any 5)
- Name of national/ international tournaments/ competitions of the game/sports (any 3)

KAUSHAL VIKAS

1. Using a MDF board [size minimum 12 by 12 inches] make any lippan art design of your choice and creativity, with fevicryl mould it clay and fevicryl colours
2. Prepare a working model of the following according to your roll no.

R.NO. 1-10 Rain Gauge

11-20 Dry wet bulb thermometer

21-32 Wind vane examples of question no. 1

