



ADRIEL HIGH SCHOOL

A CBSE Affiliated English Medium Co-Education Senior Secondary School

Pocket-2, Sector 24, Rohini, Delhi-110085

SUMMER VACATION HOME ASSIGNMENT

CLASS-IX



Dear Parents and Students,

Summer Vacation is at our doorsteps. Holidays are a well-deserved opportunity to relax and unwind by indulging in activities that are pleasurable and at the same time educative. Holidays' Home work has been designed to fire your imagination, to make you explore, discover and reinvent many things.

As parents, kindly motivate and lend support to your children and ensure that they complete the given work well-in-time and to the best of their ability.



ENGLISH

- 1 Write 20 homonyms and 20 proverbs along with their meanings in English.
 - 2 Write biography of any famous musician of your choice and paste relevant pictures.
 - 3 Write stepwise recipe for preparing Pasta.
 - 4 Write experience about any two places that you have visited during summer break, give all the relevant details and paste pictures.
 - 4 Read daily newspaper and write headlines related to education you may paste pictures as per requirement.
- * Do all the work in A4 size sheet and put it in a folder.

HINDI

सी.बी.एस. ई. के निदेशानुसार आपको 'पोर्टफोलियो' (फाइल) बनानी है जो कि इस प्रकार -

पहला पृष्ठ

सत्र-2024-25

शिक्षिका का नाम - .

छात्र / छात्रा का नाम . फोटो

कक्षा -

नामांकन संख्या -

विद्यालय का नाम व पता .

माता का नाम -

पिता का नाम -

अभिभावक मोबाइल नं .

आधार नं . -

दूसरा पृष्ठ

पारिवारिक सूचना

माता-पिता की योग्यता -

परिवार के सदस्यों की संख्या -

परिवार का आर्थिक स्रोत -

महिला -

पुरुष -

अन्य -

तीसरा पृष्ठ

स्व - परिचय (अपना परिचय)

8-10 पंक्तियाँ में लिखिए ।

चौथा पृष्ठ फैमिली ट्री बनाएं (परिवार का परिचय)

पांचवा पृष्ठ

प्रश्नावली -

प्र.1 आपको किन विशेष चीजों से लगाव है ?

प्र. 2 भविष्य के प्रति आप क्या कल्पना रखते हैं?

प्र.3 आपका मनपसंद विषय कौन सा है और क्यों ?

प्र. 4 अभिभावक (माता - पिता) आपकी पढ़ाई के साथ क्या दृष्टिकोण रखते हैं ?

प्र.5 आपका आदर्श कौन है ? आप उनके जीवन से कौन-कौन से गुण ग्रहण करना चाहेंगे

MATHS

Q1 Learn square and square-roots 2 to 25.

Q2. Write and learn all the identities of chapter 2.

Q3. Do these question

1. Write decimal form of $563/100$

2. Write the rationalisation factor of $\sqrt{50}$

3. Write decimal form of 311 .

4. Find a rational number between -37 and 13

5. Express $0.77777....$ in p/q form .

6. Simplify $(3+\sqrt{3})(2+\sqrt{2})$.

7. Express $2157 / 625$ in decimal form

8. Convert into p/q form: $22.434343...$

9. Simplify $(3\sqrt{5}-5\sqrt{2})(4\sqrt{5}+3\sqrt{2})$.

10. Write $0.6+0.777...+0.474747...$ in the form of p/q .

Q4. Practice these questions

1. Two sides of a triangle are 11cm and 12cm and its perimeter is 33cm. find the third side?

2. The perimeter of an equilateral triangle is 60cm. find the area?

3. The sides of a triangle are x , $x+1$, $2x - 1$ and its area is $x\sqrt{10}$. What is the value of x ?

4. The base and hypotenuse of a right triangle are respectively 8cm and 10cm long. Find its area?

5. The perimeter of a rhombus is 52cm. one of the diagonals is 24cm. find the area of the rhombus

Q5. Plot in graph and paste in lab manual.

a) Draw the following points on the graph (i) (2,-3) (ii) (3,-4) (iii) (4,-5) (iv) (5,1)

b) Plot the point P(-3,4) . Draw PM and PN perpendiculars to x-axis and y- axis respectively.

State the coordinates of M and N

c) Plot the points (3,2) , (-2,2) , (-2,-2) and (3,-2) in the cartesian plane. Join these points and name the figure so formed

d) Plot the points E (3,3) , N(9,3) and D (9,11), Join EN , ND and DE. Name the figure so formed

SCIENCE

Q1 Write the experiment in lab manual : Determination of the speed of a pulse propagated through a stretched string/slinky (helical spring).

Q2. Answer the following questions

Q1. Differentiate between Balanced and Unbalanced Forces.

Q2. State Newton's Laws of Motion.

Q3. Why we say second Law of motion contains all three laws?

Q4. Define the term inertia.

Q5. Prove 2nd Law of Motion

Q6. Do the written work and draw diagrams of discussed experiments in the practical file.

Q7. Do Write ups on the Topics allotted from Natural Resources.

SOCIAL SCIENCE

LEARNING OUTCOME

- Understanding foundations of hazards, disasters and associated natural/social phenomena Familiarity with disaster management theory (cycle, phases)
- Knowledge about existing global frameworks and existing agreements (e.g. Sendai)
- Methods of community involvement as an essential part of successful DRR

Humanitarian Assistance before and after disaster Technological innovations in Disaster Risk Reduction: Advantages and problems

- Experience on conducting independent DM study including data search, analysis and presentation of disaster case study Choose an earthquake-hit area and study the following in that region (preferably recently hit areas)

1. Extent of damage and location of the epicenter.
2. Areas affected.
3. Ways of minimizing the damage.
4. Measures to be adopted to keep the inhabitants and tourists safe.
5. Guidelines to be followed by the people so that they can prevent losses in the future.

A. Suggest operations and action plan of a Rescue and Disaster Management Team in disaster-prone areas. Show the probable areas of damage on a map. Also, highlight the kind of infrastructural and structural facilities required in such areas.

B. What could be the early warning symptoms that could be best used in that area?

C. How can students play a vital role in creating physically and economically healthier areas?

ARTIFICIAL INTELLIGENCE

Assignment

1.Chat with a Chatbot:

- >Interact with a chatbot on a website or messaging platform (e.g., ChatGPT, Google Assistant).
- >Ask the chatbot questions about topics like weather, sports, or general knowledge.
- >Write down your favorite conversation with the chatbot and any improvements you'd suggest.

2.Play with Image Recognition:

- >Visit a website or app that uses image recognition technology (e.g., Google Photos, Snapchat filters).
- >Upload or take a photo to see how the system recognizes objects or faces.
- >Describe your experience using the image recognition feature and its accuracy.

3.Explore Voice Assistants:

- >Use a voice assistant on your smartphone or smart speaker (e.g., Siri, Alexa).
- >Ask the voice assistant to perform tasks like setting reminders, playing music, or answering questions.
- >Share your thoughts on how helpful and easy-to-use the voice assistant was for you.

Do all the assigned holiday homework in notebook.