

# D.A.V PUBLIC SCHOOL GANDHINAGAR CCL, KANKE ROAD

## HOLIDAY HOMEWORK (2026-27)

HOLIDAY HOME WORK

**MATHS**

CLASS IX

### ACTIVITY

1. Prepare a irrational no spiral for  $\sqrt{8}$  and  $\sqrt{6}$  on separate A4 sheets.
2. On a graph sheet take two points in 1st and 3rd quadrant and find the distance between them using Pythagoras theorem.
3. Take two points in 1st quadrant with different x and y coordinate and find the distance between them using distance formula.
4. Note book activity Solve 20 questions from the chapters number system and coordinate geometry, 10 questions from the chapter polynomial.

HOLIDAY HOME WORK

CLASS- IX

**SUBJECT- CHMISTRY**

1. Prepare a colourful and creative mind map on an A4 sheet showing:-  
types of mixtures include- solution,suspension and colloid,  
types of solutions and different types of colloid.
2. Make a list of ten mixtures you find in your home. Classify them into solution, suspension, or colloid. Mention whether they are homogeneous or heterogeneous.
3. Solve following numerical problems in chemistry note book.
  - (i) A solution is made by mixing 40 g of solute with 160 g of water. What will be the new concentration if 20 g more water is added?
  - (ii) Find the mass of potassium chloride would be needed to form a saturated solution in 60 g of water at 303 K? Given that solubility of the KCl is 37/100 g at this temperature.
  - (iii) The Solubility of sodium nitrate at 50°C and 30°C is 114 g and 96 g respectively. Find the amount of salt that will be thrown out when a saturated solution of sodium nitrate containing 50 g of water is cooled from 50°C to 30°C?

ग्रीष्मकालीन अवकाश गृहकार्यम्

कक्षा - नवमी

विषयम् - संस्कृतम्

1. विश्वबन्धुत्वभावनायाः विकासाय के मार्गाः अवलम्बनीयाः इति विषयम् अधिकृत्य एकं अनुच्छेदं लिखत ।
2. द्वितीयपाठे पठितानां सूक्तीनां श्लोकानां च आशयं स्वभाषया विलिख्य आनयन्तु ।
3. जलस्य संरक्षणं कैः उपायैः करणीयम् इति सचित्रं प्रदर्शयतु ।

### **Holiday Home-Work**

**(Computer Science) - 2026-27**

**Class IX**

- Q1. What is communication? Write the importance of communication.
- Q2. Draw the communication Process.
- Q3. Draw the elements of communication.
- Q4. Write the factors affecting Perspectives in communication.
- Q5. Draw the chart of 7'Cs of Effective communication.
- Q6. What are the advantages and disadvantages of verbal communication.
- Q7. What are the importance of non-verbal communications.
- Q8. What is the importance of Self-management?
- Q9. Write the difference between:
  - (i) Strength and Weakness
  - (ii) Interests and Abilities
- Q10. What are the qualities of self-confident people.

**Subject: English**

- (1) Read the novel of your choice and prepare a book review in 150-200 words.
- (2) Prepare an art integrated Project-Portfolio comparing and contrasting Jharkhand with Telangana.

(3)As the Head Girl, write a notice informing students about an upcoming Inter-School Quiz competition.

(4) Prepare a speech on any of the following for Speaking Skill Test,

- (a) Efficiency of Recycling
- (b) Human Rights
- (c) Technology: A boon or a bane
- (d) Women Empowerment

Note:

The project portfolio may include the following:

- (i)Cover page with title of project ,School details and details of student.
- (ii)Statement of purpose, objectives and goals.
- (iii) Certificate of completion under the guidance of the teacher.

**Subject: BIOLOGY**

1. Draw the neat and labelled diagram of all the organelles of eukaryotic cells. Make a colourful and presentable diagram on a chart paper.

2. Write the contributions of the following scientist in the study of the cell ( minimum 50 words for each)

- I) Robert Hooke
- ii) Leeuwenhoek
- iii) Purkinje
- iv) Robert Brown
- v) Schledien and Schwann

Q3. Write the main functions of each of the following functions with their labelled diagram

- I) Plasma membrane
- ii) Mitochondria
- iii) Nucleus
- iv) Ribosome
- v) Lysosome

## ग्रीष्मावकाश गृह कार्य

### विषय हिंदी

### कक्षा - नवीं

1. उपसर्ग तथा प्रत्यय की विस्तृत विवरणिका लिखें। उपसर्ग से 20 तथा प्रत्यय से 20 शब्दों का निर्माण करें।
2. संज्ञा सर्वनाम विशेषण क्रिया की परिभाषा भेद भेद की परिभाषा तथा प्रत्येक का पांच पांच उदाहरण लिखें।
3. अर्थ की दृष्टि से वाक्य भेद बीडी की परिभाषा तथा प्रत्येक का पांच पांच उदाहरण लिखें
4. अलंकार की परिभाषा, अनुप्रास, यमक, श्लेष की परिभाषा 5-5 उदाहरण लिखें।

## Sub- History

### Chapter 1 - Understanding Social Science

1) Explain the meaning and scope of the following:

- Geography
- History
- Political Science
- Economics

#### Creative Work

Make a **mind map or diagram** showing how these subjects are interconnected.

### Chapter 4 - From Early Humans to Early Civilisations

**Task:** Create a mini “archaeological site model” using clay/sand in a tray or box.

#### Include:-

- Stone tools (handmade)
- A small settlement or cave
- Label features (tools, shelter, fire place)

#### Question:-

- What did you learn while creating this model?
- How did early humans survive?

## **SUBJECT- Physics**

1. Select a place you would like to visit. What's its distance from your home? Which means of transport would you prefer? What is the average speed of that vehicle as per your source?

If the vehicle travels half of the journey with half of the average speed and one third of the remaining journey by quarter of the average speed, then with what speed should the remaining distance be covered?

2. Explain a situation where
  - (i) velocity is preferred
  - (ii) Speed is sufficient
  - (iii) Displacement is needed
  - (iv) Distance is enough

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