



केंद्रीय विद्यालय महबूबाबाद / KENDRIYA VIDYALAYA MAHABUBABAD

ग्रीष्मकालीन अवकाश गृहकार्य / SUMMER VACATION HOLIDAYS HOME WORK

कक्षा 9वीं / **Class – IX**

Subject : English

Q1. Article Writing (150–200 words) write in A4 Sheet.

“Success Comes from Discipline, Not Luck”

Q2.Paragraph Writing:

“How can students reduce stress in modern life?”

Q3. write a Notice writing

“Online Education is Better than Classroom Learning”

Q4 Vocabulary Work:

Write a new words

15 synonyms

15 antonym

Q5.Parts of Speech (with examples)

1. Write definitions and 2 examples for each parts of speech

2. “Write the definitions, structures, and write 3 examples of all 12 tenses.

Q6.MDP- (Multidisciplinary project)

1.“Can Imagination Be More Powerful Than Knowledge?”

Write an Introduction, knowledge ,Imagination, Examples, and Conclusion

PRESENT (Step-by-step). Maintain a neat handwriting

Q7. AIP- (Art Integrated project)

How does globalization influence local culture and traditions? Explain with real-life

Examples and artistic representation.

Subject: Hindi

(पठन लेखन एवं सृजनात्मक गतिविधि)

1. पोर्टफोलियो

2. कला समेकित परियोजना
 3. छुट्टियों के किसी एक दिन का अनुभव विस्तार से लिखिए जिसमें आपने कुछ नया सीखा हो या कहीं भ्रमण किया हो।
 4. किसी प्राकृतिक दृश्य या सामाजिक घटना का चित्र चिपकाकर 150 शब्दों में अनुच्छेद लिखिए।
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Mathematics

Part A: Coordinate Geometry

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*Most important *

Buy new maths textbook of class9(Ganita Manjari)

Solve all exercise problems from chapter 1&2.

1. Basic Concepts

Define:

Cartesian Plane

Origin

Abscissa and Ordinate

Write the coordinates of points located:

On x-axis

On y-axis

At origin

2. Plotting Points

Plot the following points on a graph sheet and identify the quadrant:

A(2, 3)

B(-4, 2)

C(-3, -5)

D(5, -2)

E(0, 4)

F(-6, 0)

3. Identify Coordinates

Observe a graph (draw your own) and write coordinates of at least 6 points in different quadrants.

4. Distance Activity (Simple)

Find the distance of the following points from origin:

(3, 4)

(-5, 12)

(8, -15)

5. Real-life Application

Write 5 examples where coordinate geometry is used in real life (e.g., maps, GPS, games).

Part B: Polynomials

1. Basic Understanding

Define:

Polynomial

Degree of a polynomial

Zero of a polynomial

Identify degree of:

$$*3x^2+5x-6$$

$$*7x^3-2x$$

$$*9$$

2. Types of Polynomials

Classify the following:

$$*5x^3+3x-9$$

$$*-7x+4$$

$$*10$$

3. Finding Zeros

Find the zero of:

$$*x-5$$

$$*2x+3$$

$$*x^2-9 \text{ (factorization method)}$$

4. Verify Polynomial Identity

Verify: $(x+2)(x+3)=x^2+5x+6$

5. Word Problems

*The sum of two numbers is represented by $(x-7)$ If one number is x , find the other.

*Find a polynomial whose zero is 3.

Part C: Activity Work

Activity 1: Graph Art

Create a simple picture (house/tree/robot) using coordinate points.

Plot at least 15 points and join them.

Activity 2: Polynomial Model

Make a chart showing:

Types of polynomials

Examples

Graph shapes (rough sketches)

Part D: Challenge Section

*Find a polynomial whose zeros are 2 and -3.

*If $x=2$ is a zero of $ax+4$, find value of x .

Plot points that form a rectangle and write their coordinates.

SCIENCE

1. Learn and write all IMPORTANT topics in CRM

2. Draw and write about the functions of nucleus, mitochondria, ribosomes, endoplasmic reticulum, Golgi apparatus, lysosomes (use A4 paper)

3. Complete the following M D P activities?

- A. Draw two side-by-side cells with all cell organelles? Write “Plant Cell” and “Animal Cell” in creative fonts Use green shading and labelling for plant cell (use A4 paper)
- B. Create a Mitosis and Meiosis model
- C. “Create a **3D model of a living cell and cell membrane using clay/paper**