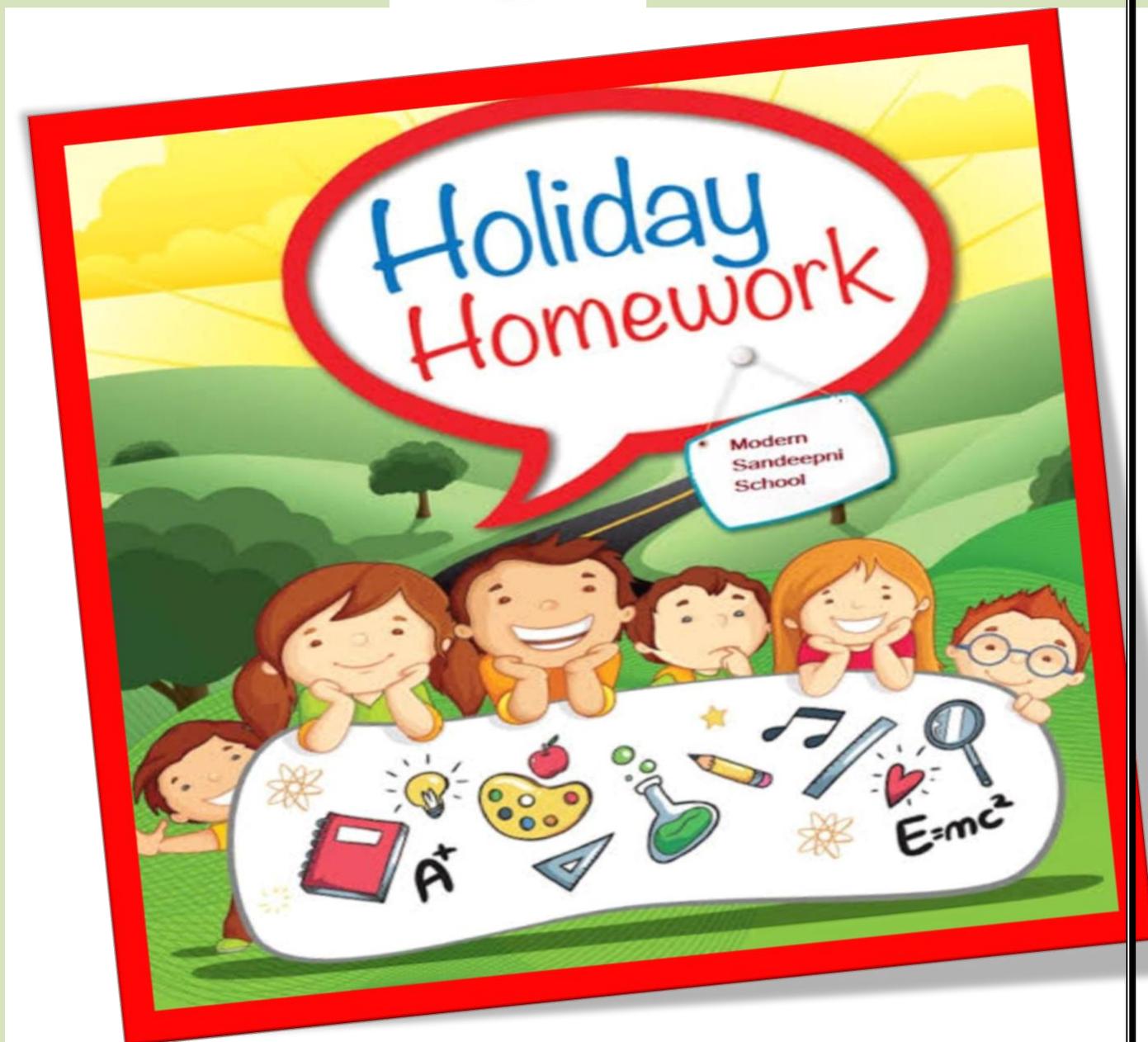




PVSS DAV PUBLIC SCHOOL JHUMRI TELAYA, JHARKHAND-825409

(SESSION – 2022 -22)
(CLASS – IX)



Enjoy your Summer Holidays in a productive way :

Travel and Explore – Take out time to travel to new places with your friends and family. A city tour or a visit to historical monuments, and museums will give lifetime memories as well as knowledge about your country's rich heritage.

Read at least one book– You may read at least one story book during the summer break. A digital library visit will also give you the chance to find the book of your interest and spend leisure time going through its pages.

Play Outdoor Games – Indulge yourself in Outdoor Games and activities during the summer holidays. Sports are a must for the physical growth of the child. So, devote your time to your favorite sports such as cricket, table tennis, soccer, badminton, etc.

Enrich STEM Subjects – To enrich your understanding and knowledge of STEM subjects,

Experiments with things – All of you are creative geniuses and love to experiment with different things. Summer Holidays are the best time to explore and experiment with various things.

Enhance your Knowledge – Utilize your holidays to enhance your general knowledge of history, culture, tradition, nature, and environment, politics, scientific discoveries, etc. To keep abreast of the various things happening in the country and the world, it is important to have basic knowledge about them.

Engage in Fun Activities – Engage yourself in playful and fun activities such as the collection of coins, leaf, flowers, stamps, etc. Paint your favorite picture, or watch your favorite cartoon series, or make a scrapbook using newspaper & magazine cuttings.

Learn new things – Enroll yourself in interesting online workshops to learn new things such as yoga, karate, swimming, sketching, dance, and a new language such as French, Italian, German, or Spanish. If you are a music lover, you may also learn to play musical instruments during your summer holidays.

Improve your Skills – And, why not use the Summer Holidays to improve your skills in reading, writing, drawing, and listening. Also, you must learn the art of communication and work on improving his time-management skills during the summer break.

*SUBJECT - English

*AIM:

- 1.To enjoy learning new things.
- 2.To develop 4 basic skills.
- 3.To impart self realisation among students.

Assignment:-

1. Paste a photo of your grandmother and write a paragraph on her in 150 words.
2. Gift pictorial depiction of the poem 'The Brook'.
3. Read a book of Sudha Murthy and summarise it.
4. Prepare a chart of narration with examples in a decorative way.
5. Write and learn the question answers of all the taught lessons.

*LEARNING OUTCOMES:

- 1.Creativity of the students will be developed.
- 2.Critical thinking will be enhanced.
- 3.Self Awareness will be developed
- 4.Art integrated learning will be developed.

विषय -हिन्दी

उद्देश्य -छुट्टियों के मध्य पठन- लेखन- चिंतन- कौशल का विकास
गतिविधि -1

गाँव के शहरीकरण से प्रायः विलुप्त हो चुकी हस्तकलाओं की जानकारी प्राप्त कीजिए और इसके बारे में चित्र सहित संक्षिप्त विवरण देते हुए लिखें | विद्यालय खुलने के पश्चात कक्षा में अपने विचार भी प्रस्तुत करेंगे |

❖ कौशल अभिवृद्धि

हस्त कलाओं का ज्ञान

- ❖ आत्मविश्वास में वृद्धि
- ❖ मनन -चिंतन का विकास

गतिविधि - 2

मध्यप्रदेश राज्य के प्रमुख दर्शनीय स्थलों की सूची बना कर लिखें | किसी यात्रा पर जाने से पूर्व आप क्या -क्या तैयारियाँ करेंगे ,इस पर एक फोल्डर बनाइए |

- ❖ कौशल अभिवृद्धि
- ❖ उत्तरदायित्व और जागरूकता की भावना उत्पन्न करना
- ❖ अपने देश की सांस्कृतिक विरासत का ज्ञान
- ❖ उत्सुकता और आत्माभिव्यक्ति

गतिविधि -3

कबीर के दस दोहे अर्थ सहित तैयार कर लिखें व अवकाश उपरान्त कक्षा में सुनाइये |

- ❖ कौशल अभिवृद्धि
- ❖ आनंद और उत्साह की भावना
- ❖ रसानुभूति
- ❖ मानवीय मूल्यों का विकास

गतिविधि -4

❖ अपने सबसे प्रिय मित्र की फोटो चिपका कर अपनी भावनाओं को व्यक्त करते हुए सुन्दर और आकर्षक ग्रीटिंग्स बनाइए |

- ❖ कौशल अभिवृद्धि
- ❖ रचनात्मकता और सृजनात्मकता
- ❖ सौहार्द्र ,भ्रातृत्व , मैत्री गुणों का विकास
- ❖ मानवीय सम्बन्धों में मधुरता

गतिविधि -5

❖ जिन देशभक्तों ने मातृभूमि की रक्षा हेतु अपना सर्वस्व न्योछावर किया है , उनमें से दो योद्धा सरदार उद्धम सिंह और भगत सिंह पर रिपोर्ट तैयार करें ; जहाँ उनके नाम ,कार्य और उनके जीवन से मिलने वाली प्रेरणा को चित्र सहित अभिव्यक्त करें |

- ❖ कौशल अभिवृद्धि
- ❖ देशभक्ति की भावना
- ❖ इतिहास से परिचय
- ❖ रिपोर्ट शैली का परिचय

SUBJECT – संस्कृतम्

TOPIC – परियोजनाकार्यम्

AIM- I- कथारचना तथा सृजनात्मक शक्तेः अभिवृद्धि ,
II- नवीन संस्कृत शब्दानां सह परिचयः ।

WHAT TO BE DONE –

- i- “ श्रीमद्भगवत गीतायाः” पञ्च श्लोकाः अर्थेण सहितं लिखत ।
- ii- पुस्तकात् एका संस्कृत कथां सचित्रम् लिख ।
- iii- प्रथम पाठस्य सारांशं स्वमातृभाषया लिखत ।
- iv- “ पण्डित नारायण शर्मा” महोदयस्य विषये स्वमातृ भाषया लिखत ।
- iv- किं नाम संधि , तेषां भेदाः (दश) उदाहरणेन सह लिखन्तु ।

LEARNING OUTCOME- सामान्य व्याकरण सृजनात्मक शक्तेः , लेखन कौशलस्य विकाशः च ।

SUBJECT – MATHS

Activity:1 –The square root spiral.

Aim- Students will be able to learn the process of finding square root.

Objective – Students will use square root in daily life application. Activity:2 – To verify the identity: $a^3+b^3 = (a+b)^3-3ab(a+b)$, Using cuboids and cube

Aim- Students will be able to understand the practical method to find the above formula.

Objective- Students will learn the use of the above formula in solving different problems.

Questions:

Junk food is unhealthy food that is high in calories from sugar or fat, with little dietary fiber, protein, vitamins or other nutrients. If α be the number of students who take junk food, β be the

number of students who take healthy food such that $\alpha > \beta$, and α and β are the zeroes of the quadratic polynomial $f(x) = x^2 - 9x + 20$, then answer the following:

1. Which type of a polynomial is given in the above expression?
2. Find the number students who take healthy food.
3. How many students take junk food?
4. Find the total number of students.

Learning outcome:- Students will learn how to find roots of equation and distinguish between types of equation.

SUB-PHYSICS

AIM- To get the basic concepts and knowledge of Motion.

TOPICS- Distance ,Displacement,Speed,Velocity and Acceleration.

WHAT TO DO-

- 1) Draw the concept map of chapter motion up to acceleration using coloured papers.
- 2) The data regarding the motion of two different objects A and B are given in Table 1.
- 3) Examine them carefully and state whether the motion of the objects is uniform or non-uniform.

Time	Distance traveled by Object A in m	Distance traveled by Object B in m
09:30 AM	10	12
09:45 AM	20	19
10:00 AM	30	23
10:15 AM	40	35
10:30 AM	50	37
10:45 AM	60	41
11:00 AM	70	44

3)



Look at the situations given in Fig. 1. If the bowling speed is 143 km h^{-1} in Fig. 1 what does it mean? What do you understand from the signboard in Fig. 2?

4). In your everyday life you come across a range of motions in which

- 1) acceleration is in the direction of motion,
 - 2) acceleration is against the direction of motion,
 - 3) acceleration is uniform,
 - 4) acceleration is non-uniform.
- 5) Can you identify one example each of the above type of motion

Learning outcomes- 1. To understand the relation between all the topics in better way.

2. To know the physical significance and practical application in daily life.

SUBJECT – BIOLOGY

TOPIC – THE FUNDAMENTAL UNIT OF LIFE : CELL

AIM – PROPER UTILISATION OF TIME IN SUMMER VACATION AND PREPARE STUDENTS FOR COMING EXAMINATIONS .

WHAT TO BE DONE –

1. Prepare the model of plant cell or Animal cell .
2. Make a video that explain endosmosis and exosmosis .
3. Draw the following diagrams in portfolio copy –
 - a) Compound Microscope
 - b) Basic parts of Onion peel cell
 - c) Structure of Nucleus
 - d) ER
 - e) Different types of cell present in Human body
 - f) Golgi Apparatus
 - g) Mitochondria
 - h) A prokaryotic cell
4. Write the difference between
 - a) SER and RER
 - b) Diffusion and Osmosis
 - c) Prokaryotic cell and Eukaryotic cell
 - d) Plant cell and Animal cell
 - e) Endosmosis and Exosmosis . in HWcopy of Biology
5. Give reason of the following –
 - a) Plasma membrane is called selectively permeable membrane .
 - b) RER is able to synthesis proteins .
 - c) Animal cell will burst in very dilute solution .
 - d) Lysosome is called suicide bag of the cell .
6. Define the following term -
 - a) Endocytosis b) plasmolysis c) Membrane Biogenesis d) Nucleoid
 - e) Genes f) Cristae .

LEARNING OUTCOME – Learning by doing and expand their knowledge in particular field .

CHEMISTRY.

1. Design a model for the three states of matter using thermocols ball. Project.
2. Make a list of applications based on the concept of vaporization and latent heat of vaporization in portfolio copy.
3. Gases are highly compressible explain it taking examples of surrounding and paste the pictures. In portfolio.
4. Observe 5 activities from your surrounding based on the characteristics of matter and paste the pictures . Find out it is based on which characteristics of matter in portfolio copy.

5. Convert the following into kelvin.
 a. 253 degree Celsius b. 90 degree Celsius c. 40 degree Celsius d.60 degree Celsius
6. Convert the following into degree Celsius.
 a. 656 k b. 373 k c. 543 k d. 243 k.

HISTORY

Topic	Aim	What to be done	Learning outcome
The French Revolution	To develop the understanding of the chapter.	Prepare a comprehensive project report on the French Revolution.	1.Familiarize students with the names of people involved, the different types of ideas that inspired the revolution, the wider forces that shaped it. 2. Show how written , oral and visual material can be used to recover the history of revolution.

GEOGRAPHY

Q 1. Do the map skill of ch 1 given on page no 6 of NCERT BOOK.

2. Collect information about the ‘Silk route’ . Also find out the new developments , which are improving

communication routes in areas of high altitude.

Use separate map for each heading.

Both the activities will be presented in a single stick file.

Aim – To develop map skill among students.

Learning outcomes – students will know about different features and their location in India.

ECONOMICS

Q1. Prepare a Project Report on the topic – ‘ My Native Village’

Headings and features –

1. Location

2. Area

3. Population composition
4. Different occupations of Villagers
5. Different types of houses
6. Use of electricity
7. Means of Transportation and Communication

It will be presented in a stick file.

Use picture, diagram, sketch, map, graph etc to make the project attractive.

Aim – To aware students about village Economy.

Learning outcomes – Students will know about their native village and Life and Economy of villages of India.

SUBJECT - IT

Q 1. To describe about Communication and its Types.

Q.2. To describe about Elements of a Communication cycle, with a neat and clean diagram.

Q.3. Explain about the Advantages and Disadvantages of Verbal Communication.

Q.4. Describe about different Keys of Self-Management.

Aim – To develop the Communication skill among students.

Learning outcomes – Students will know about different types of communications.

