

MAHARSHI PATANJALI VIDYA MANDIR

CLASS-VIII

HOLIDAY HOMEWORK



**The time to cheer aloud  
The time when you can play  
On the beach with your loved ones  
And do what your heart say**

**There is no one to see here  
There is nothing as such to see  
Only the sunlight passing the home  
And clear blue sky as can be  
Summers are finally here  
So have a good summer time  
As it's the most amazing time  
Happy summer time!**

### **General Instructions that are to be followed:**

- **Download the holiday homework pages and complete the task.**
- **Handwriting should be neat and readable.**
- **The work should be original and not copied from internet.**
- **The assignments should be submitted to the respective subject teachers.**
- **Encourage your ward to do the assigned holiday homework independently.**

### **Summer Tips to be followed:**

- **“A healthy mind resides in a healthy body”- Pay attention to your health, go for morning and evening walks, drink lots of water, avoid the consumption of junk food, eat healthy and stay healthy.**
- **Open your mind for reading newspapers, novels, blogs and stories that will help you in increasing your vocabulary.**
- **Indulge yourself into activities like cooking, singing, dancing, aerobics, cycling, trekking, swimming, art and craft, and gardening. And share your experience with your family and friends.**
- **Spend quality time with your grandparents and parents, talk to them regarding their experience of school.**

### **HINDI**

प्रश्न -1 मेरे देश के लाल कविता का सस्वर वाचन कीजिए एवं देश के लिए बलिदान होने वाले तीन वीर सैनिकों के बारे में पांच पंक्तियां लिखकर उनके चित्र चार्ट पेपर पर चिपकाई।

2. 'जल ही जीवन है'। जल संरक्षण एवं संवर्धन पर पांच स्लोगन लिखकर पांच जल स्रोतों की चित्रात्मक प्रस्तुति कीजिए।

3. रवींद्रनाथ टैगोर द्वारा लिखित अनमोल भेंट, अनाथ तथा काबुली वाला कहानियां पढ़ कर किसी एक कहानी पर संवाद लिखिए।

4. कक्षा में पढ़ाए गए समस्त पाठ एवं व्याकरण भाग की पुनरावृत्ति कीजिए।

5. संज्ञा, लिंग, वचन एवं कारक के बारे में पढ़िए तथा इनमें से किसी एक के बारे में चित्रात्मक प्रस्तुति कीजिए।

## SCIENCE

### BIOLOGY/CHEMISTRY

**NOTE:-Homework to be done in fair notebook.**

Task 1 - A young girl went to visit her grandparents living in the nearby village. She saw the way the farmers tilled the land before sowing seeds. After returning home, she decided to grow few tomato & pea plants in her kitchen garden. Write few points the girl should remember about seeds in order to get a good crop. Mention the benefits of planting them together (Tomato & Pea plant).



Task 2- Agricultural implements- To identify and write the uses of implements used in agricultural-practices.

**TASK-3:** -Tabulate uses of coal and its useful products (coke, coal-tar and coal gas).

- What are the ways by which you can contribute to conserve exhaustible natural resources?

**Task 4-**Prepare one static or working Model on the theme of Science & Technology for sustainable future.

## PHYSICS

**Note:** The holiday homework has to be done in project file papers and to be submitted in a file.

**A. Answer the following questions:**





1. Give two examples each of the situations in which you push or pull to change the state of motion of objects.
2. How would pressure change if-
  - i) area is doubled keeping force constant?
  - ii) force is doubled keeping area constant?
3. An archer stretches her bow while taking aim at the target. She then releases the arrow, which begins to move towards the target. Based on this information, fill up the gaps in the following statements:
  - (a) To stretch the bow, the archer applies a force that causes a change in its \_\_\_\_\_.

(b) The force applied by the archer to stretch the bow is an example of \_\_\_\_\_ force.

(c) The type of force responsible for a change in the state of motion of the arrow is an example of a \_\_\_\_\_ force.

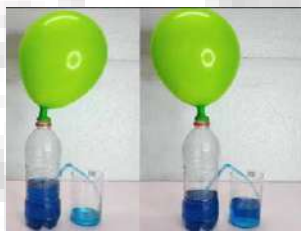
(d) While the arrow moves towards its target, the forces acting on it are due to \_\_\_\_\_ and that due to \_\_\_\_\_ of air

1. Complete this table: Studying the effects of force on objects.

Description of situation	How to apply force	Diagram	Action of force			
			Change in state of motion		Change in shape	
			Yes	No	Yes	No
A lump of dough on a plate	Pressing it down with your hands					
Spring fixed to the seat of a bicycle	By sitting on the seat					
A rubber band suspended from a hook/nail fixed on a wall	By hanging a weight on it or by pulling its free end					
A plastic or metal scale placed between two bricks	By putting a weight at the centre of the scale					

B. Write about the contributions of Isaac Newton and Blaise Pascal to the field of physics, highlighting their key discoveries and impact on our understanding of the natural world. Also paste a photo of them.

C. Construct a working model on air pressure as shown in the figure and also describe its working.



D. Construct a kaleidoscope using cardboard, broken bangles, colourful papers.

## COMPUTER

**Question 1.** Create a PowerPoint Presentation of 5-8 slides on CYBER SECURITY and its advantages.

**Question 2.** Write the SQL commands for the following.

- Create a table named **Recycled Item** with the given columns.
- Add some sample records into the **Recycled\_Item** table.
- Use **UPDATE** command to change the quantity of specific recycled item.
- Add a new column to store the **Recycling Date**.
- Retrieve all records in descending order according to the Quantity recycled.

Column Name	Data Type
Item_ID (Primary key)	Varchar
Item_Name	Varchar

Quantity

Int

Recycling\_Date

Date

## SOCIAL STUDIES

### *Subject enrichment Project*

#### **Topic: "Population Density Around the World: A Creative Exploration"**

Objective:

To understand how and why population is spread unevenly across the world and its impact on people and resources.

#### **Index**

##### 1. Population Density Collage Map

Take a world map

Use coloured paper, grains, cotton, or sketch pens to show:

**High population density (e.g., red or rice grains)**

**Low density areas (e.g., green or cotton)**

Add the legend

Write reasons why some areas are more densely populated than others (e.g., rivers, climate).

Topic:

#### **Major Developments During the Colonial Period**

Title for Project:

#### **"India Under British Rule: Changes That Shaped the Nation"**

##### 1. Cover Page

- Title
- Your name, class, roll number
- Decorate with images or drawings: British officials, railways, maps, factories
- Add British and Indian flags for contrast

. Main Sections (Each with headings, dates, images & drawings)

##### A. Development of Railways (1853)

- First train: Mumbai to Thane
- Helped trade, troop movement, and resource extraction
- Over 40,000 km rail network built by British

**Creative Tip: "Draw a picture of a train journey from Mumbai to Thane. Label the engine, bogies, tracks, and stations."**

## B. Introduction of English Education (1835)

- Lord Macaulay's Minute on Education
- English became medium of instruction
- Creation of modern schools, colleges, universities (Calcutta, Bombay, Madras)

**Creative Tip:** Create a scroll with famous educationists like Raja Ram Mohan Roy.

## Communication and Postal Services

- Telegraph, post offices, printing press
- Helped British control India but also united Indians
- Newspapers began rising

**Paste Picture:** Old post boxes, telegraph wires, newspaper etc

## F. Modern Cities and Urban Planning

- Calcutta, Bombay, and Madras developed as major cities
- Roads, buildings, ports, and railway stations built

**Creative Tip:** Make a city skyline using coloured paper and label it "Colonial Calcutta" or "Bombay Presidency".

## 4. Conclusion

"While colonial rule caused suffering, it also brought some lasting changes to Indian society. It's important to understand these developments to see how they shaped modern India."

## 5. Extra Creative Touches

- "Then and Now" comparisons (e.g., trains, schools)
- Small fold-out facts
- Add a mini quiz at the end:

*Q: When did the first train run in India?*

# ENGLISH

I.Children here are some fabulous novels.

(Choose ANY ONE)

1. "School Times" by Ruskin Bond
2. "I m Possible" by Tarun Pithode
3. "The Story Of My Life" by Hellen Keller
  - a. Share your **impression** about the story/novel, you have chosen to read and also write about the **Protagonist** of the story.
  - b. While going through the story, what are the **Moralistic overtones** have you noticed and realised? Mention in the form of list.



- II. Read a newspaper daily and compile a list of five new words with their meanings daily. Mention the dates accordingly.
- III. Learn all the questions and answers from the chapters done in class.

## MATHS

- Q.1. Find the value of 'p' so that  $5^{p+1} \times 5^5 = 5^{12}$
- Q.2. Express 2048 as a power 2.
- Q.3. Simplify:  $(3^{-10} \div 3^{-7}) \times 3^5$
- Q.4. Write the following numbers in the standard form:  
(a) 0.000007649      (b) 465300000000
- Q.5. Simplify :  $\left[ 6^{-1} + \left( \frac{-3}{2} \right)^{-1} \right]^{-1}$
- Q.6. Find x such that :
- (i)  $\left( \frac{7}{4} \right)^{-3} \times \left( \frac{7}{4} \right)^{-5} = \left( \frac{7}{4} \right)^{3x-2}$
- (ii)  $3^{2x-1} = \frac{1}{27^{x-3}}$
- Q.7. If  $\frac{9^n \times 3^5 \times (27)^3}{3 \times (81)^4} = 27$  then find the value of n.
- Q.8. Find out three rational numbers lying between  $\frac{2}{3}$  and  $\frac{3}{4}$
- Q.9. The area of a parallelogram is  $19\frac{1}{2} \text{ cm}^2$  If its height is  $1\frac{6}{7}$ , find its base.
- Q.10. Simplify :
- (i)  $\left( \frac{-3}{4} \times \frac{-24}{15} \right) + \left( \frac{-11}{13} \times \frac{78}{55} \right)$
- Q.11 Represent  $\frac{9}{11}$  on number line.
- Q.12. Find the product of  $\frac{3}{8}$  and the reciprocal of  $\frac{-5}{17}$
- Q.13. The sum of two rational numbers is  $\frac{-19}{60}$ , If one of the number is  $\frac{-7}{12}$  find the other
- Q.14. What should be subtracted from  $\left( \frac{3}{4} + \frac{1}{3} + \frac{2}{5} \right)$  to get  $\frac{1}{2}$ ?
- Q.15. Ramesh Camara was loaded with a new film. The film can take 36 shapes. During the class picnic he took 20 pictures. What fraction of the role can still be used to take shape?

## ACTIVITY

- B.)** Make a working model of Laws of Exponent.
- C.)** "Unravel the Mystery of 1729!"

Investigate why 1729 is famously known as the Hardy-Ramanujan number. What unique property makes this number special? Explore its mathematical significance and the story behind its discovery.

**D.)** Create a math puzzle (crossword, word search, or logic puzzle) incorporating topics you've studied.

Requirements:

1. Include at least 10 math-related terms or concepts.
2. Make sure the puzzle is fun and challenging.

**3. Provide answers or solutions.**

Note - The holiday homework has to be done in project file paper.

### संस्कृत

१-कक्षा में पढ़ाए गए पाठ-(१) एवं (२) के शब्दार्थ, पाठानुवाद एवं समस्त अभ्यास कार्य पढ़ें एवं याद करें।

२-प्रथम इकाई परीक्षा में आने वाले शब्द रूप- 'अस्मद्' व 'युष्मद्' को याद करें एवं उत्तर पुस्तिका में लिखें।

३-पुस्तक की सहायता से कोई पाँच व्यवहार वाक्य एवं उनका हिंदी अनुवाद भी लिखें ।

४-परियोजना कार्य- संस्कृत पाठ्य पुस्तक के आधार पर कोई पाँच सूक्तियाँ अर्थ के साथ लिखें एवं चित्र भी लगाएं ।

[नोट- सभी कार्य उत्तर पुस्तिका में करें।]





*Thank  
you!*

