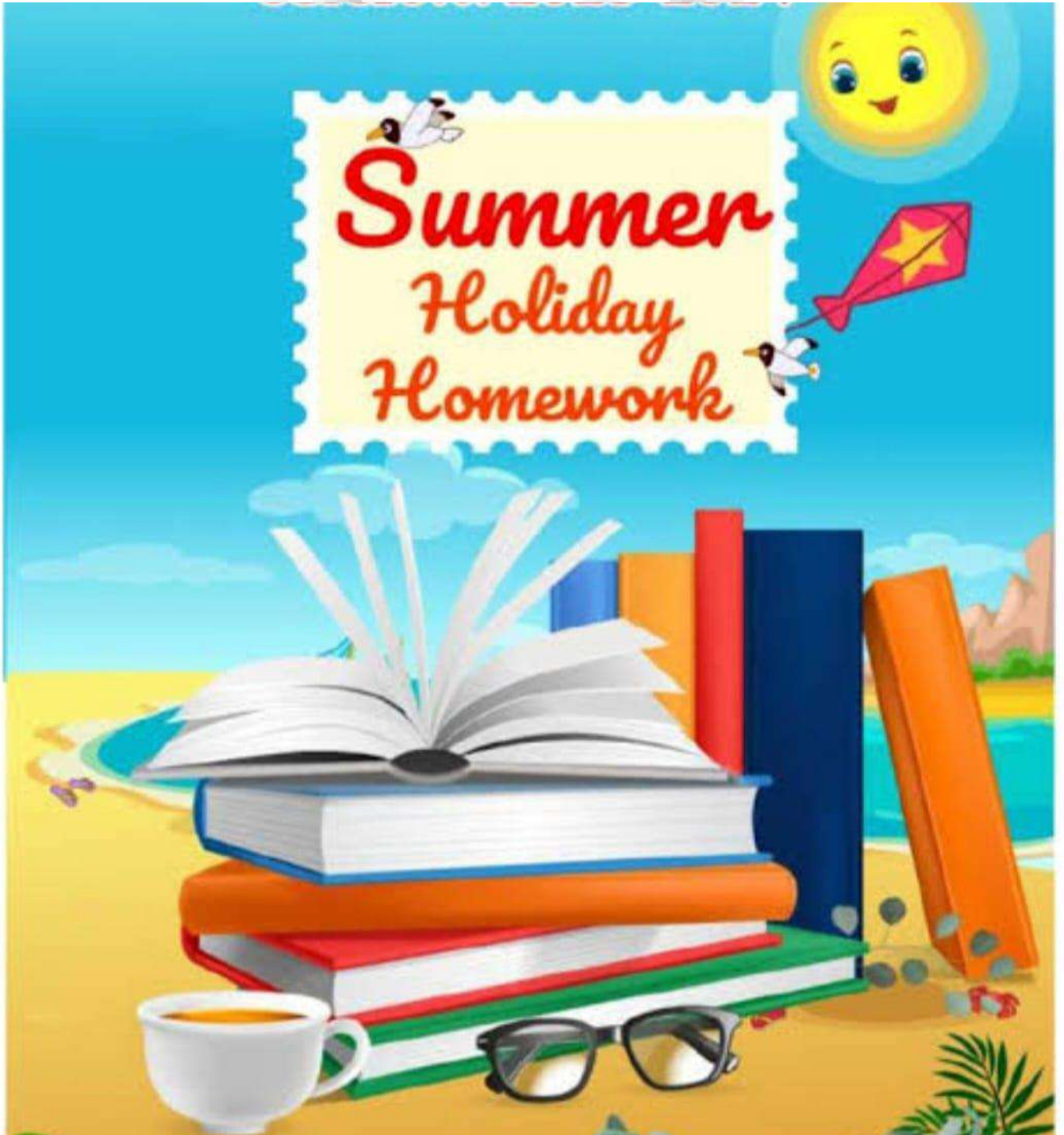




Maharshi Patanjali Vidya Mandir

Class-IX (Session 2025-26)



**General Guidelines:**

1. Complete all assigned tasks and activities.
2. Ensure neatness and organization in your work.
3. Use relevant materials (books, online resources, etc.) to gather information.
4. Submit your homework on the designated date.

**Specific Instructions:**

1. Check the specific requirements for each subject (e.g., format, word limit).
2. Manage your time effectively to complete tasks.
3. Seek help from parents/guardians or teachers if needed.

**Additional Tips**

1. Stay motivated and engaged.
2. Enjoy learning and exploring new concepts.

**Have a productive and enjoyable break!**

## **ENGLISH**

**Assignment 1:**

Learn all the Unit test 1 chapters of Beehive , Moments and Grammar & Writing section.

**Assignment 2:**

The book “You Are Born To Blossom” by Dr. A.P.J. Abdul Kalam

**Post Reading Assignment**

- a) Correlate current scenario with APJ Abdul kalam's childhood time and experiences which shaped up his perspective on life and success.
- b) Analyze the role of mentorship in kalam's life, highlighting key figures who influenced him.

**Assignment 3:**

Go through the Novel “ Oliver Twist” by Charles Dickens and you will be asked to speak on any one of the following for the ASL assessment:

- \* Any chapter from the book which left a strong impression in your mind.
- \* The plot and setting of the story.

- \* The character which impressed you a lot
- \* Your opinion as a critic on the book and its author.
- \* The evolution of the character Oliver throughout the Novel.
- \* The theme of Good and Evil to explore the nature of humanity and redemption.

## हिंदी

1. निम्नलिखित विषय में से किसी एक विषय पर सूचना तैयार करें।

(क) विद्यालय में आयोजित होने वाली वाद- विवाद प्रतियोगिता के लिए हिंदी विभाग के संयोजक की ओर से लगभग 80 शब्दों में एक सूचना तैयार कीजिए।

अथवा

विद्यालय में स्वच्छता अभियान चलाने के लिए योजनाबद्ध कार्यक्रम के निर्धारण हेतु सभी कक्षाओं के प्रतिनिधियों की बैठक के लिए समय, स्थान आदि के विवरण सहित सूचना लगभग 80 शब्दों में तैयार कीजिए।

2. निम्नलिखित विषयों में से किसी एक विषय पर लगभग 100 शब्दों में लघु कथा लिखें तथा साथ ही उससे मिलने वाली शिक्षा भी लिखें।

(क) शीर्षक "परोपकार का फल"

अथवा

शीर्षक "कुमार्ग "

उपरोक्त गृहकार्य उत्तर पुस्तिका में लिखे जाएंगे।

3. पढ़ाए गये पाठों की पुनरावृत्ति करें।

## **MATHEMATICS**

*"Without mathematics, there's nothing you can do. Everything around you is mathematics. Everything around you is numbers".*

*- Shakuntala Devi, Indian writer and mental calculator*

**INSTRUCTIONS: Solve the following questions in A4 sheets.**

1. Do 25 unique questions from the chapter Number System.
2. Do 20 unique questions from the chapter Polynomial.

**INSTRUCTIONS: Solve the following questions in your Activity File.**

1. Plot the following rational numbers on the number line.

$-3/7, 5/8, 5/4, 11/5$

2. Represent  $\sqrt{9.7}$  on the number line. Also justify your answer.
3. Represent from  $\sqrt{2}$  to  $\sqrt{16}$  by the spiral method on the number line. Also give your observation about this spiral plotting.
4. Plot any five irrational numbers on the number line.

Note: Each number to be done on separate number lines.

5. Write about 5 Indian Mathematicians and their achievements. Paste a photo of them too in your Activity File.

**ART INTEGRATED PROJECT:** Construct a square root spiral in any living or non-living things around you.

## **SCIENCE**

### **PHYSICS**

1. Practice all equations of uniformly accelerated motion's derivation well. And finally do it in the A4 size paper. Submit it when school opens after vacations.
2. Select 20 good questions on motion from any other book and solve them in your fair copy
3. Based on the concept of force make a small working model with household things and submit it too as school opens after vacations
4. Perform an experiment where two different masses dropped from same height takes same time or different time to reach the ground. Comment on your observation in your fair copy.

### **BIOLOGY**

#### **Topic- Health and diseases**

**Microbes can be challenging to learn about. Their names are unpronounceable. Their structures are foreign, but that doesn't mean that they have to be boring !**

**Students project is focused on microbial diseases which involve researching different types of infectious agents, investigating the diseases they cause, and understanding the mechanisms of infection and treatment. Students can learn about the roles of bacteria, viruses, fungi, and protozoa in causing illness, and explore how these microorganisms interact with the human body.**

#### **General instructions-**

- \* Each student will do the activity individually on file papers.
- \*Write your-name, class, section and roll no. on the front page of A-4 sheet.
- \*Give a clear and colourful presentation on the given topic.
- \*You can make your work more attractive by adding pictures/diagrams.

**Each student will write about any one of the disease caused due to-**

- 1.Roll no-1-10 - Bacteria
2. Roll no-11- 20 – Virus
3. Roll no- 21-30- Fungus
4. Roll no-31- last roll no.- Worms/Nematodes

## IN YOUR PROJECT MENTION :

- **Identify and categorize microbial pathogens:** Divide pathogens into bacteria, viruses, fungi and worms/nematodes
- **Investigate the mechanisms of infection:** Understand how pathogens enter the body, replicate, and cause damage.
- **Learn about the immune response:** Explore how the body's defence system fight against microbial infections.
- **Presentations:**  
Prepare written presentations on the chosen diseases, including symptoms, causes and treatments.
- **The role of hygiene in preventing infections:**  
Explore how is food, safety practices, and other hygiene measures can reduce the spread of infectious diseases.

In addition to this, you will write about general vaccination and immunisation programme.

# **SOCIAL SCIENCE**

## **GEOGRAPHY**

**Project Title: "Discover India's Tribal Heritage"**

Subject Integration: History + Geography

Format: Travel Brochure (Tri-fold paper )

Objective:

Design a travel brochure that encourages tourists to visit a region where a tribal community lives in India. Highlight their history, culture, and geographical environment.

Index

Front Panel (Cover Page):

- Eye-catching title like : "Explore the Land of the Gonds" / "A Journey to the Santhal Heartland"
- Attractive photo or illustration

Inside Panels:

- Introduction to the tribal group
- Historical background: origins, traditions, and key historical facts
- Famous personalities (tribal leaders, freedom fighters, etc.)

Panel 2: Geography and Nature

- Map showing where they live (state/region in India)
- Description of landforms, forests, rivers, and climate
- How geography affects their lifestyle, food, housing, and economy

### Panel 3: Culture and Festivals

- Unique clothing, music, dance, and craft
- Major festivals and rituals
- Local tribal cuisine

### Conclusion:

Message on tribal heritage conservation

Materials You Can Use:

- Chart paper (for tri-fold brochure)
- Printed or hand-drawn maps, photos, and art
- Coloured pens, stickers, traditional motifs

### Creative Element (Optional):

Add a small pocket with a “Tribal Passport” page for stamps or facts.

### Assessment Criteria:

- Historical and geographic accuracy
- Creativity and layout
- Clarity of information and handwritten content only
- Connection between geography and tribal lifestyle

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## HISTORY

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### Creative Title:

**"Revolution in Red, White & Blue: A Timeline of Liberty"**

*Tracing the Flames of Change in the French Revolution (1789–1799)*

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### Objective:

To understand the causes, key events, and outcomes of the French Revolution by preparing a creative timeline chart and summary.

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### Instructions:

1. Create a **timeline** of at least 10 major events of the French Revolution (1789–1799).
2. Include **dates**, **event names**, and a **1-2 line description** for each.
3. Add **illustrations**, **pictures**, or **symbols** (like the guillotine, liberty cap, French flag, etc.).
4. Decorate with headings, borders, and color for visual appeal.
5. Submit your work neatly on chart paper or in your holiday homework notebook.



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### Events to Include (Suggested):

- Meeting of the Estates-General (May 1789)
- Tennis Court Oath (June 1789)
- Storming of the Bastille (14 July 1789)
- Declaration of the Rights of Man (August 1789)
- Women's March to Versailles (October 1789)
- Abolition of Monarchy (1792)
- Execution of Louis XVI (January 1793)
- Reign of Terror (1793–94)
- Fall of Robespierre (1794)
- Rise of Napoleon (1799)

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### Bonus Creative Section (Optional):

- Make a **comic strip** of one key event
  - Write a **short diary entry** as a revolutionary citizen
  - Design a **revolutionary poster** using slogans like "Liberty, Equality, Fraternity"
- 

## **INFORMATION TECHNOLOGY (IT)**

*Note: The answers to all questions should be written neatly and properly only in the Theory Notebook, EXCEPT FOR QUESTION 1.*

Q.1. Create a PPT of 10 slides on the topic "Threats in Cyber Security". Apply your creativity by inserting images and making the slides attractive and colorful. Submit clear printout (both color and B/W acceptable) of the slides in a separate folder.

Q.2. Draw a well labelled diagram describing the basic features of a modern smartphone.

Also, describe the common functionality available in Smart Mobile devices.

Q.3. Explain the various differences between RAM and ROM.

Q.4. Explain the usage of the following Linux Commands and also give example of each:

- pwd
- mkdir
- rmdir
- touch
- rm
- cd
- ls
- cd ~

# **ARTIFICIAL INTELLIGENCE**

*Note: The answers to all questions should be written neatly and properly only in the Theory Notebook, EXCEPT FOR QUESTION 1.*

Q.1. Create a PPT of 10 slides on the topic “AI and its Applications”. Apply your creativity by inserting images and making the slides attractive and colorful. Submit clear printout (both color and B/W acceptable) of the slides in a separate folder.

Q.2. Draw a well labelled diagram describing the basic features of a modern smartphone. Also, describe the common functionality available in Smart Mobile devices.

Q.3. Explain the various differences between RAM and ROM.

Q.4. Explain the usage of the following Linux Commands and also give example of each:

- pwd
- mkdir
- rmdir
- touch
- rm
- cd
- ls
- cd ~