PRAGATI PUBLIC SCHOOL
HOLIDAY HOMEWORK
SESSION 2025-26
CLASS – IX

Dear Parents,

Warm Greetings!!!

The time spent in school is always cherished with lots of fun-filled activities; making new friends and learning new things. We hope that our students also enjoyed themselves in school as much as we enjoyed having them with us. You might have noticed that they all loved to come to school.

Summer Vacation is the time for the children to explore their myriad interests and indulge in various activities that would lead to their all-round development. Summer Vacation is the most awaited time for both parents and kids.

Here are a few tips for parents to act as a facilitator to help their child balance his/her eagerness in pursuing adventure, creativity, and self-expression:

- Make sure that you are spending quality time with your ward.
- Have at least two meals together with your children. Teach them the importance and hard work of the farmers and ask them not to waste their food.
- Let them wash their plate after every meal. Children learn the dignity of labor from such activities.
- Allow them to help you in cooking. Let them make their own vegetable and fruit salad.
- Encourage them to learn 5 new words in English and list them in a notebook.
- Visit the Grandparents and let your children bond with them. Their love and emotional support is very important for your child. Click snaps with them.
- Do not miss the local festival and local market.
- Gently encourage your child to raise the kitchen garden by planting seeds.
- Share stories about your childhood and your family history
- Allow them to complete homework on their own under your guidance.

Though we will miss our students and their chatter and laughter definitely, we wish them a HAPPY AND HAPPENING SUMMER BREAK! Enjoy and take care of yourself!

In accordance with the NATIONAL EDUCATIONAL POLICY 2020, we are incorporating an integrated project-based learning wherein students will prepare projects for all the subjects based on a common theme. This endeavor has been taken up with the objective of inculcating the approach of integrating diverse subjects or fields and the spirit of collaborative learning. The school has planned a vacation homework in the form of an Integrated project to ensure that every student do not stay out of the learning path.

THEME FOR MULTIDISCIPLINARY ART INTEGRATION PROJECT FOR CLASS IX: TECHNOLOGY & HUMANITY

General Instructions
- Integrated projects of all subjects can be done in file, model, chart, or in any other creative and innovative way.
- Credit will be awarded to original ideas, illustrations, and creative use of materials.
- The project needs to be developed and presented in this order:
- Handwritten cover page showing project title, student's name, class, section, school's name, and academic year.
- The Index page should include the names of the subjects, the page no. and a column for the teacher's sign.
- Acknowledgments (acknowledging the institutions and persons who have helped).
- The work is to be done in this sequence only 1. English 2. Hindi 3. Mathematics 4. Science 5. S.St.
- Page limits (for each subject): Minimum 3, Maximum 5 excluding cover page, index page and acknowledgment page.
- All the above instructions are to be followed by the students if they are presenting handwritten project work.
- All the students are advised to complete the project with the resources available at home.
- Prepare a systematic timetable and follow it religiously from the very first day.
- Don't bring Homework on the first day of the reopening of the school.
- The dates for bringing the homework will be intimated later.
- Use Eco-Friendly material only for making the model.

English:-

Read and analyze: Read a novel or article exploring the impact of technology on human relationships, such as "The Circle" by Dave Eggers or "The Future of the Mind" by Michio Kaku. Write a critical analysis of the text.

- Write an argumentative paragraph on the topic "Artificial intelligence will surpass human intelligence in the near future." It can be for or against the topic.

Reflective journal:-
- Keep a reflective journal throughout the holiday, exploring your relationship with technology and how it affects your life.
- These ideas should provide a good starting point for more extensive homework.

Hindi:-
- Make a poster & write a slogan in the Hindi theme.
- Write a dialogue writing between Technology and Humanity.

Mathematics:-

Part A: Mathematics & Technology:-
(For Roll No. 1 to 25)
- Choose a topic of interest (e.g., screen time, climate change, internet usage, etc.)
- Collect data (you can use websites, apps, or conduct surveys).
- Ø Represent the data using Bar graphs, Pie charts, and Line graphs (use tools like Excel or Google Sheets)
- Find mean, median, mode
- Discuss trends and patterns
- Submission: Digital presentation or report (PDF or slideshow)

Part B: Mathematics & Humanities:-
(For Roll No. 25 onwards)
Topic: Mathematics in Historical Architecture
- Research any historical monument (e.g., Taj Mahal, Colosseum, Great Pyramid of Giza)
- Identify mathematical concepts used in its construction (symmetry, geometry, ratios, etc.)
- Create a poster or digital report showing: Pictures of the monument, a Mathematical explanation (with diagrams), and a Historical background.

Science:-
- Revise the topics completed in class and complete your files and registers,
- Do the worksheets given in class in respective subject registers.
- Make the working model on the themes shared with you in the class, and their artwork for the display as assigned to you in your class,
- Selected models will be displayed in the science fair.

Possible suggested models' ideas and links are...   https://nif.org.in/news/317

Social Science:-

INTERDISCIPLINARY PROJECT
Topic: Forest Society and Colonialism (History)
Natural Vegetation and Wildlife (Geography)
BLUEPRINT:
The Students will express how forest resources were classified and exploited by the colonial regime. Trace the forest rules and their impact on the forest dwellers. Changes that took place in Java during the colonial rule. Investigate why Forest Land was brought Under cultivation?
The Commercial forestry or classification of forest was supported by the economy during The colonial regime.
The Natural Vegetation of India based on the geographical location and its characteristics features and the wildlife associated with it.
The role of the government in protecting the forest cover and the wildlife at present.
Compare how tribals and other forest dwellers suffered and protested during the colonial regime with the present-day community conservation movement in India.

Make a file on the above-mentioned topics according to your group. Support your project with the help of pictures, data, research, a map, or any other source. Maximum pages 10.

Rubrics	Marks allocated
Research Work	**1**
Collaboration & Communication	**1**
Presentation & Content relevance	**1**
Competencies	**2**
• **Creativity**	
• **Analytical skill**	
• **Evaluation**	
• **Synthesizing**	
Total	**5**

Group 1: Roll no 1 to 10
Group 2: Roll no 11 to 20
Group 3: Roll no 21 to 30
Group 4: Roll no 31 to 40
Group 5: Roll no 41 to last

Disaster Management:-

Project-
- **Make the Do's and Don'ts of Disasters (2 slides).**
- **Make a slide on the Role of technology in Disaster Management.**
- **Locate disaster-prone areas on the outline political map of India (1-2 slides).**
- **Make a flow chart on Human-made disaster and Natural Disaster (1 slide).**

Artificial Intelligence:-

Topic: "AI in Daily Life"
Instructions:
Make a digital presentation (PPT/Google Slides) on the following:
- **What is Artificial Intelligence?**
- **Applications of AI in daily life (at least 5 examples)**
- **Benefits and risks of AI**
- **Your views: Can AI replace humans?**

Design Your Own AI Robot
Instructions:
- **Imagine an AI-based robot/helper for your home/school.**
- **Draw and label your robot.**
- **Write about:**
- **What tasks can it do?**
- **How does it use AI?**
- **Why did you design it this way?**

Try a Beginner-Friendly AI Tool
 Suggestions:
  - Visit https://quickdraw.withgoogle.com – Play with AI that guesses your drawing.
  - Try https://teachablemachine.withgoogle.com – Make a simple machine-learning model using webcam, sound, or poses.

Task: Write 5–6 lines about your experience.

Marketing and Sales:-

Instructions:

1. Topic: Four Concepts of Marketing

Create a PowerPoint Presentation (PPT) explaining the following four core concepts of marketing:
  - **Production Concept**
  - **Product Concept**
  - **Selling Concept**
  - **Marketing Concept**

2. Details to Include in the PPT:
  - **Definition and key features of each concept**
  - **Real-life examples or case studies**
  - **Comparative analysis (if possible)**
  - **Use of visuals, charts, or diagrams for better presentation**

3. Presentation Format:
  - **Minimum 8 slides (2 slides for each concept)**
  - **Use clear headings and bullet points**
  - **Font should be legible and neat**

4. Submission Instructions:
  - **Take a printout of the PPT slides (handout format or full slides)**
  - **File it neatly in your subject file/folder**
  - **Ensure your name, class, and roll number are written clearly on the first page**

5. Bonus Tip (Optional for Extra Credit):
  - **Include the Societal Marketing Concept as an additional slide.**

Data Science:-

Activity 1: Explain how data and analytics help in:
• Fighting crimes
• News and information
Activity 2: Explain the positive and negative impacts of data footprints.
Activity 3: Explain some computer viruses and ransomware that have recently created problems for organizations.
Activity 4: In this project, you can use a data set of popular dog breed characteristics to determine the best breed of dog for a hypothetical friend. You can consider various factors like the dog's lifespan, maximum weight, and whether the breed is good with children. You will collect, summarize, and compare data on finding the perfect dog breed.

Multi Media:-

Adobe Photoshop 7.0-
Activity: Create a motivational poster using different fonts, colors, and text effects.

Example:
- **Title: "Dream Big, Work Hard"**
- **Font: Impact (for the main title), Arial (for subtext)**
- **Effects: Drop Shadow, Outer Glow, Gradient Fill**
- **Background: Light gradient with a soft image of a mountain**

Tools used: Text Tool, Layer Styles

Tools used: Text Tool, Layer Styles
Activity: Design a greeting card for an event or festival using decorative brushes.
Example:
- **Theme: Friendship Day**
- **Message: "Best Friends Forever" in the center**
- **Background: Light blue with heart-shaped brushes in different shades**
- **Extra: Use a soft, round brush to add colorful sparkles**

Tools used: Brush Tool, Text Tool

Introduction to Financial Market:-

Revise Chapters 1 and 2