



## PLATO PUBLIC SR. SEC. SCHOOL

LEARN, EVOLVE, and TRANSFORM

Dear Students,

As you embark on your summer holidays, take this opportunity to relax, recharge, and follow your passions. Whether you're discovering new places, picking up fresh hobbies, or enjoying quiet moments with loved ones — make every moment count. Keep yourself safe, stay inquisitive, nurture your talents, and return rejuvenated for a fulfilling learning journey ahead.

### Guidelines for Parents to Reflect On:

- 👉 Encourage the use of English in everyday conversations at home. Read headlines aloud or discuss current affairs to improve language skills.
- 👉 Talk openly about your child's school life and friendships to foster trust and understanding.
- 👉 Involve them in simple household responsibilities to teach life skills and teamwork.
- 👉 Prioritize quality time — be it sharing meals, walks, or simple chats.
- 👉 Discover together — watch documentaries or educational content as a family..
- 👉 Introduce breathing exercises and mindfulness to support emotional balance.
- 👉 Focus on nutrition — provide protein-rich meals and ensure adequate hydration.

### Tips for Students to Remember:

- Set aside a fixed time each day for completing your assignments.
- Don't forget to unwind — enjoy games, hobbies, or creative play.
- Maintain healthy daily habits and include simple breathing techniques.
- Break your tasks into smaller, manageable goals.
- Plan your day — prioritize important tasks using time management tools.
- Stay cheerful, drink plenty of water, and take care of your wellbeing.
- Believe in yourself — visualize your goals and take steps to achieve them.

**With these thoughtful practices, you can balance learning and leisure,  
making your summer holiday both productive and joyful.**

**Don't just count the days  
this summer vacation,  
make every day count.**

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***“Time is the most valuable coin in your life. You and you alone will determine how that coin will be spent. Be careful that you don't let other people spend it for you.”***

**Time management** is a cornerstone of success. By enhancing productivity, reducing stress, improving the quality of work, facilitating better decision-making, promoting work-life balance, aiding in goal achievement, and fostering self-discipline, effective time management can significantly enhance both personal and professional success. Developing and refining time management skills is an investment that yields substantial returns in all areas of life.

Technique such as the Eisenhower Matrix or the Pomodoro Technique can help in segmenting tasks and maintaining focus. By breaking down tasks into manageable chunks and setting realistic deadlines, individuals can prevent the build-up of stress, it not only improves mental health but also sustains long-term productivity.

### MY DAILY SCHEDULE FOR A WEEK

Name..... ..... Class/ Sec..... ..... Roll no..... Time	Monday Date.....	Tuesday Date.....	Wednesday Date...	Thursday Date...	Friday Date.....
7 a.m.	WAKE UP TIME				
7 to 8 a.m.	EXERCISE AND MEDITATION				
8 to 9 a.m.	BREAKFAST				
9 to 11 a.m.					
11 a.m. to 1 p.m.					
1 to 3 p.m.					
3 to 5 p.m.					
5 to 7 p.m.					
7 to 9 p.m.					
10 p.m.	SLEEPING TIME				



**HAPPINESS**  
**CREATE YOUR OWN RECIPE OF HAPPINESS**



**Write down what makes you happy in the measuring cup given below:**

3/4

1/2

1/4

## **ENGLISH**

**Let your imagination shine!**

- A. Design a Bookmark : Include a meaningful quote and a small drawing.
- B. Write a letter to your future self to be read 5 years from now. Include your hopes, dreams and advice.
- C. Create a vision board of your dreams and goals. Add cut-outs/pictures/drawings with short captions or quotes in English.
- D. Choose a character from any novel or film. Imagine you are them and write 2 diary entries describing two important events from their life.
- E. Make 3 doodle pages with English words, idioms, or quotes. Use colours and drawings to express what each word/quote means.

## **MATHS**

Research and Creativity:

Write about the work of Georg Cantor in set theory and W.R Hamilton for the work in complex number

Mind Booster:

1. Make your own mind map/flowchart to understand the concept of Domain and range with three examples
2. To represent De morgon law by using venn diagram.

Art integration:

1. Prepare a PPT of types of function with graph (ODD ROLL NO)
2. Prepare a PPT of formulas and concepts of sets (EVEN ROLL NO.)

## **ACCOUNTANCY**

1. Make a dictionary of important terms from chapters done in class in an innovative way.
2. Revise all the chapters done till date and solve 20 questions from different book of Accounting equation and Journal in a separate notebook.
3. Create a jigsaw puzzle using important terms from chapters covered in school.

4. Visit a nearby bank, collect different forms available and fill it. Make a file.
5. Make a list of new accounting standards that come into effect in April in a creative way in a scrap file.
6. Make a chart on different career options available after class XII.

## **BUSINESS STUDIES**

1. Prepare any one project as prescribed by CBSE. Also prepare chart related to your topic.
  - a) Visit to Departmental store
  - b) Visit to mall
  - c) Visit to Industry
  - d) Aids to trade
3. Read business news and collect information about various types of Business existing in India.
4. Develop your own product and create a pitch to showcase its features, benefits, market potential etc.
5. Revise all the chapters done in class and solve the assignment related to chapters.
6. Create a crossword using important terms and concepts from chapters 1, 2, and 3.

## **ECONOMICS**

Read Economic Times and paste important cuttings in a Scrap file for at least 15 days.

### **1. INVESTIGATORY TOPIC**

Impact on various industries and the Economy: Post, Pre and During War time Situation.

Kindly Choose any 2 industry and work on the project. The following Industries are:

- Automobile Industry
- Construction Industry
- Health Industry
- Hotel Industry
- Petroleum Industry
- Airline Industry



Note: - PROJECT SHOULD BE OF 20-25 PAGES ALONG WITH PICTURES, GRAPHS AND DIAGRAMS.

1. Compare China, Japan and U.S. with India based on Health Industry and Technologies used in it.

Instructions:-

- Compare the last 10 years reports and predict the results and draw a conclusion based on it.
  - What are the various steps taken by the countries in order to be better in the world in terms of technologies, export and import, increasing and creating demand in different countries?
  - It must be written in A4 size sheet.
  - Neatness to be maintained and graphs, diagrams can be pasted or drawn. .
7. Prepare any THREE Mind Maps from the chapters studied so far. Present them beautifully on Pastel sheets/ A3 sheets.
  8. Solve the assignment provided over school website in separate notebook.

## **BIOLOGY**

### Practical File

Complete your practical file with all the practicals along with labelled diagrams conducted in the class.

### Project File

Prepare an investigatory project on the topic discussed and approved by your teacher.

(You can make it hand written or in print out forms)

### Modal (Any one)

- On buccal (oral) cavity of humans, including different types of teeth and their formula.
- Food digestion in our alimentary canal starting from buccal cavity till anus.
- Ultra structure of intestine to show the arrangement of villi.

(Label each part of your model properly, use nature friendly materials for making your model)

Poster (Any one)

- Emphasizing the importance of a healthy digestive system and the role of a balanced diet.
- Role of digestive enzymes and gastrointestinal hormones.
- Digestive disorder- PEM, Indigestion, Constipation, Jaundice and Diarrhoea.

(Refer the reading material of chapter Digestion and Absorption from NCERT).

Revision: Revise all the syllabus of the month of April and May.

## **CHEMISTRY**

1. Write Practical Application and natural Form of ANY 5 d-BLOCK ELEMENTS on a chart Paper with diagram
2. Make Concept maps on topics Given in Some basic Concepts of chemistry and Structure of Atom.
3. Make PPT on good and bad effects of F-Block elements on human beings

## **PAINTING**

1. Draw two still-life compositions on A2-sized sheets:
  - One with pencil shading
  - One with water color
2. Create two compositions on A2-sized sheets:
  - Madhubani painting
  - Market scene with at least four human figures

Learning work:

Learn the following chapters:

1. Introduction to Miniature Paintings
2. Rajasthani School and their Paintings
3. Pahari School and their Paintings

## **PHYSICS**

### **ASSIGNMENT**

Q1 Give the number of significant figures in each measurement.

1) 36.7      2) 0.006606      3) 2,002

Q2 Which among the following is not a basic unit of measurement?



1) Time

2) Temperature

3) Momentum

4) Mass

Q3 Which of the following is not a vector quantity?

(a) Weight (b) Nuclear spin (c) Momentum (d) Potential energy

Q4. Current is a

(a) vector (b) scalar (c) both scalar and vector (d) neither scalar nor vector

Q5 Dimensions cannot be used to

(a) To check dimensional correctness of a formula. (c) Convert units

(b) Find value of constant of proportionality in an equation. (d) Deduce a relation among physical quantities.

Q6 For rectilinear motion displacement can be

a) Positive only b) Negative only c) Can be zero d) All of the above

Q7 Equation of motions is applicable to motion with

a) Uniform acceleration b) non uniform acceleration c) Constant velocity d) none of

these Q8 If the displacement – time graph for a particle is a line parallel to time axis, then the velocity of the particle is

(a) Maximum (b) minimum (c) zero (d) uncertain

Q9 Draw velocity –time graph for uniformly accelerated motion for an object starting from rest.

Q10 If the units of energy, force and velocity are 50 J, 5 N and 2m/ s, what will be unit of mass, length and time?

Q11 Give one example each of physical quantities which have SI unit but no dimensions, which neither have unit nor dimension.

Q12 If force, length and time are fundamental quantities, determine the dimensions of mass.

Q13 Find the dimensions of latent heat and specific heat?

Q14 What will be the dimensions of  $a/b$  in the relation  $E = b \cdot x^2 / at$ , where E is energy, x is distance and t is time.

Q15 Determine the expression for centripetal force if it depends on mass m, radius r and speed v of the object.

Q16 If the mass (m) of a stone depends on velocity (v),  $\rho$  (density of water) and g, find the expression for mass.

Q17 If energy E is proportional to mass m and c, the speed of light, determine the relation in these quantities using the concept of dimensions.

Q18 Find the dimensional formulae for the following physical quantities: a) Torque  
b) Coefficient of Viscosity c) Moment of inertia.

Q19 Find the unit vector of following:  $3\mathbf{i}+7\mathbf{j}+4\mathbf{k}$

Q20. The position of an object moving along x-axis is given by  $x = a + bt^2$  where  $a = 8.5 \text{ m}$ ,  $b = 2.5 \text{ m s}^{-2}$  and  $t$  is measured in seconds. What is its velocity (1) at  $t = 0\text{s}$  and (2)  $t = 2.0\text{s}$  (3) What is the average velocity between  $t = 2.0 \text{ s}$  and  $t = 4.0 \text{ s}$  ?

## PROJECT

Prepare an investigatory project and working model on any of the topic given below

- Momentum conservation
- Sustainable Development
- Technology in Agriculture
- Technology in Medicine and Medical
- Technology in Transportation
- Artificial Intelligence

## General instructions:

- The report can be typewritten/handwritten with pictures
- Write only on one side of sheet.
- Use A-4 coloured or white sheets.
- The project should include the following: -

- Cover Page
- Certificate Page
- Acknowledgment
- Index/ Content
- Introduction
- Sub-Topics according to index
- Bibliography

## MAKE INFORMATIVE CHART ON THE GIVEN TOPIC (Any one)

Write an autobiography on any one physicist (Newton, Einstein, Galileo or any other of your choice) on chart paper highlighting his contribution to the subject.

**REVISION:** Revise all the syllabus done in class.

## **COMPUTER SCIENCE**

1. Identify and photograph at least 5 hardware components in a real computer (CPU, RAM, HDD, etc.)

Create a short report (1-2 pages) describing:

- Each component's function
- Where you found it (home, school, etc.)
- Add labels on images
- Submit: Word/PDF report.

2. Make a presentation on system and application software and take the print out of the slides and make a file of it.

3. Convert your first name into its ASCII code representation.

### **Instructions:**

- Write your name (e.g., RAVI)
- Write ASCII value for each character (e.g., R=82, A=65, V=86, I=73)
- Represent the ASCII values in Decimal and Binary.
- Present it as a creative name tag or ID card.

4. Revise all the topic that have complete before summer vacation.

5. Make a formula booklet activity from chapter-2 includes all conversion rules, Boolean algebra and Logic Gates with Truth table.

6. Do assignments uploaded on ERP.

7. Python is a free and open source language. What do you understand by this feature? Make a PPT on the history of python programming language. You can cover topics such as the origin of the language, its creator, key feature, and its evolution

## **INFORMATICS PRACTICES**

1. Create a timeline slideshow showing the evolution of computers through generations.

### **Include:**

- 1st to 5th generation computers



- Key features and technologies (e.g., vacuum tubes, transistors, microprocessors)
- Example devices for each generation

Submit: (photo/scan) or PPT/PDF

2. Create a Biography through PowerPoint presentation

(a) Charles Babbage

(b) George Boole

(c) Guido Van Rossum

3. Make a presentation on the difference between Interactive mode and Script mode in python.

4. Solve all the unsolved questions given at the back of the book in holiday homework copy.

5. Revise all the chapters taught in the class.

6. Do assignments uploaded on ERP

7. Practice all python programming that have completed before vacation.

## **PSYCHOLOGY**

1) Personal Reflection Essay: Why Psychology?

Task:

Write a short, thoughtful essay (1-2 pages) on:

1. Why did you choose Psychology as a subject?

2. Mini Case Study on Human Behavior

Instructions for Students: ( 5-10 pages max)

Step 1: Choose a Behavior to Study

Pick one behavior commonly seen at home. Some suggestions include:

- Study habits of a sibling, Smartphone or screen time usage, Reaction to stress or anxiety (e.g., before exams)

- Step 2: Get Consent

Step 3: Use Enquiry

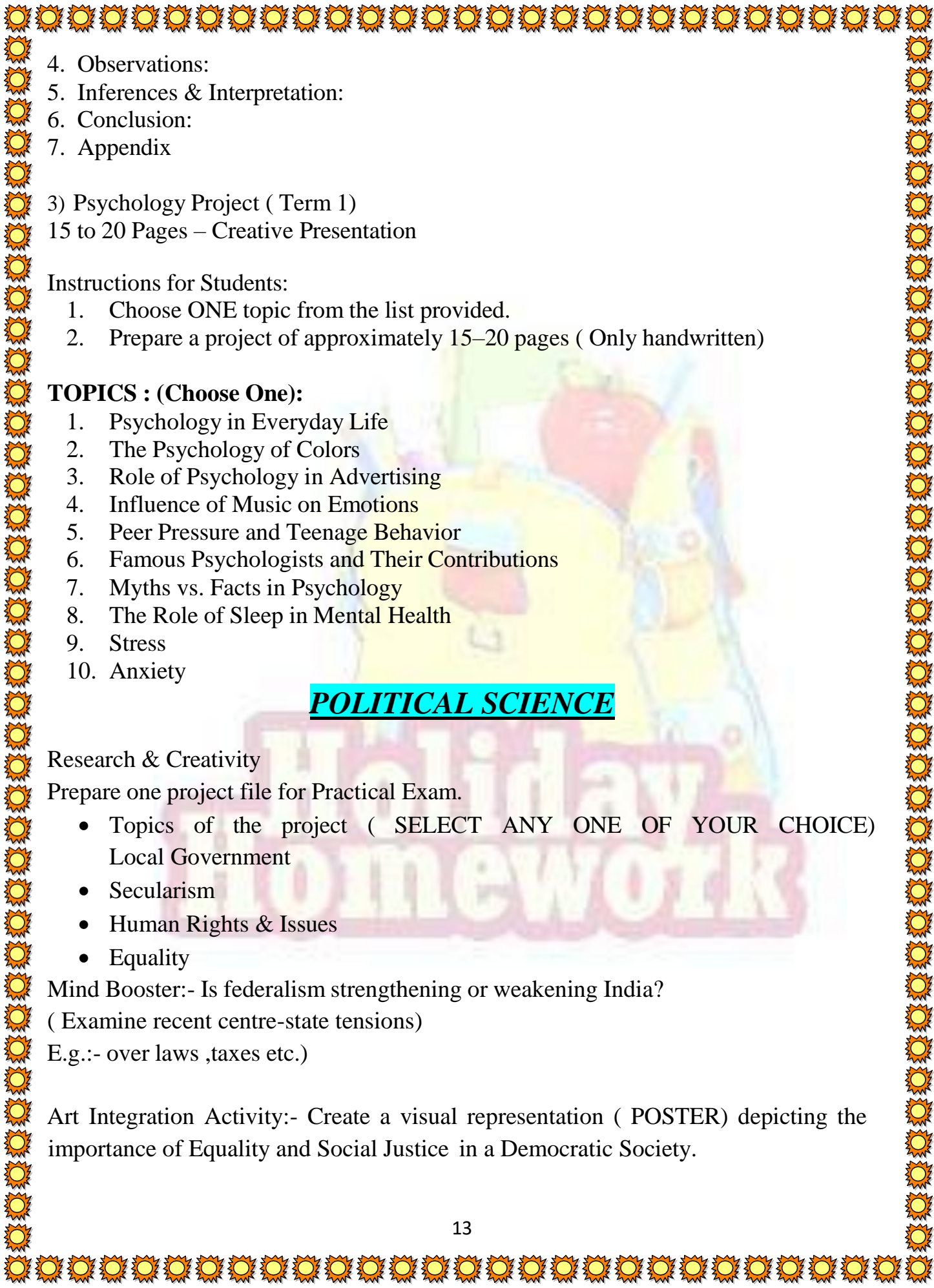
Methods from Chapter 2

2) Create a Case File with the following format:

1. Title of the Case Study:

2. Introduction:

3. Methods Used:

- 
4. Observations:
  5. Inferences & Interpretation:
  6. Conclusion:
  7. Appendix

3) Psychology Project ( Term 1)  
15 to 20 Pages – Creative Presentation

Instructions for Students:

1. Choose ONE topic from the list provided.
2. Prepare a project of approximately 15–20 pages ( Only handwritten)

**TOPICS : (Choose One):**

1. Psychology in Everyday Life
2. The Psychology of Colors
3. Role of Psychology in Advertising
4. Influence of Music on Emotions
5. Peer Pressure and Teenage Behavior
6. Famous Psychologists and Their Contributions
7. Myths vs. Facts in Psychology
8. The Role of Sleep in Mental Health
9. Stress
10. Anxiety

## **POLITICAL SCIENCE**

Research & Creativity

Prepare one project file for Practical Exam.

- Topics of the project ( SELECT ANY ONE OF YOUR CHOICE)  
Local Government
- Secularism
- Human Rights & Issues
- Equality

Mind Booster:- Is federalism strengthening or weakening India?

( Examine recent centre-state tensions)

E.g.:- over laws ,taxes etc.)

Art Integration Activity:- Create a visual representation ( POSTER) depicting the importance of Equality and Social Justice in a Democratic Society.

General Instructions for Project:-

Project to be done on A4 Size Sheets

Project should be handwritten for 15 pages.

Neatness to be maintained.

On the first page Performa to be given:- Name, Class, Roll No ,Name of school, Year of submission and Topic, ,Acknowledgement, Index ,Content ,Newspaper cuttings ,pictures, Illustrations are must

## **PHYSICAL EDUCATION**

Prepare practical file which includes

- 1 fitness test administration (sai khelo india fitness test)
2. Procedure for asanas, benefits and contraindication for any two asanas for each life style disease
- 3 anyone one ion recognised sports or game of choice. Labelled diagram of field and equipment.. Also mention it's rules, terminologies and skills
4. Practice at least 10 asanas daily to demonstrate in half yearly and final practical's.

