

VIKAS BHARATI PUBLIC SCHOOL
CLASS - XI (SCIENCE)
HOLIDAY HOMEWORK (2026-27)

ENGLISH

Sharp Insights Module

✳️ Module 1 reading comprehension

Classroom assignment 1 -10

Homework assignment 1-5

✳️ Module 3 Poster making and Writing

Practice assignment 1-5

Homework assignment 1-5

✳️ Module 7 grammar

Tenses: Classroom assignment 1

✳️ Gap filling: classroom assignment 3-4

Make Mind map, flow chart, quiz sheets of at least four chapters.

Prepare Review of any one chapter of your course book for Speaking Assessment to be held after Summer Break.

PHYSICS

Please complete the following tasks during the holidays to stay up to date with the syllabus and ensure thorough preparation for the upcoming assessments:

1. Written Assignments

Practice all assignments that have been shared in the class group.

Write the solutions neatly in your Physics register.

2. Practical Work

Complete Practical Experiments 1A and 1B in your Physics practical file.

Record two activities as discussed in class, and document them properly in your practical file.

3. Revision

Revise all chapters covered so far in class.

Prepare thoroughly for the upcoming Assessment after the holidays.

CHEMISTRY

1. Written Worksheet

Practice and solve the worksheets that have been shared in the class group.

Write the solutions neatly in your Chemistry register.

2. Revision

Revise the chapters and topics covered so far in class.

3. Practical File

Complete practical experiments of both titrations in your chemistry practical file.

Read and refer to NCERT.

Complete your notes and practice the NCERT questions.

Prepare thoroughly for the upcoming Assessment after the holidays.

MATHS

Chapter 1: Sets

Chapter 2: Relations and Functions

Chapter 3: Radian and Degree Measure of Angles (Exercise 3.1)

Revise all the above chapters thoroughly and prepare well for the upcoming UT exam.

Also, complete the lab manual shared in the class group

Make any one project from the following -

Option 1: Trigonometry PPT

Assignment Title:

PowerPoint Presentation on Real-Life Applications of Trigonometry

Instructions:

Prepare a PowerPoint presentation on the topic “Real-Life Applications of Trigonometry”.

Your presentation must include at least five distinct examples demonstrating how trigonometric concepts are used in everyday life or various professional fields.

Guidelines:

1. The presentation should be between 10-15 slides, including title and reference slides.
2. Each example must clearly explain the problem, the trigonometric concept applied, and its practical significance.
3. Include relevant diagrams, images, or calculations to support your examples.
4. Cite all sources used on the final slide.
5. Maintain academic tone, clarity, and proper formatting throughout.

Submission Deadline: [10 July]

Marks Allotted: [10]

Option 2: Relations and Functions PPT

Assignment Title:

PowerPoint Presentation on Relations and Functions with Real-Life Examples

Instructions:

Prepare a PowerPoint presentation on “Relations and Functions” that illustrates the concept through real-life applications.

Guidelines:

1. The presentation should cover at least one real-life example for each type of function
2. For each example, define the function type, explain the relation between domain and codomain, and describe its real-world relevance.
3. The presentation should be between 10-15 slides, including title and reference slides.
4. Use diagrams, flowcharts, or graphs to enhance understanding.
5. Ensure correct mathematical notation and formal academic language.
6. List all references on the final slide.

Submission Deadline: [10july]

Marks Allotted: [10]

BIOLOGY

1. Concept Mapping Project

Choose one chapter (e.g., Plant Kingdom).

Create a large visual concept map showing interconnections.

Use colours, diagrams, flow arrows.

2. Question Bank Creation

Each Student will prepare:

10 MCQs

5 Assertion-Reason questions

5 Case-based questions

From 1–3 chapters

3. Digital Presentation

Each student will create a 3–5-minute video or PPT on any topic of their choice from their biology textbook.

These will be presented by the students in class during the course of teaching that particular topic.

INFORMATICS PRACTICES

General Instructions

Please read all instructions carefully before beginning your holiday homework.

- All work must be original. Plagiarism or copying will result in disqualification.
- Proper referencing is mandatory for any data, images, or content used from external sources.
- Both assignments must be completed before the first day of school after holidays.
- Late submissions will not be accepted without a valid reason.
- Maintain high standards of academic integrity in all submissions.

CLASS XI — INFORMATICS PRACTICES

Subject: Informatics Practices

Chapter: Unit 4 — Introduction to Emerging Trends

Format: PowerPoint Presentation (.pptx)

Submission: Via Google Form

<https://forms.gle/4ou1PUwVBWJBrudr8>

Assignment: Presentation on Emerging Technologies

Each student must prepare a PowerPoint Presentation on any ONE topic from Unit 4: Introduction to Emerging Trends. The presentation should be informative, well-structured, and visually engaging.

Topics to Choose From (pick ONE):

- Artificial Intelligence (AI) & Machine Learning (ML)
- Natural Language Processing (NLP)
- Immersive Experience — Augmented Reality (AR) & Virtual Reality (VR)
- Robotics — Types, Applications and Future
- Big Data — Characteristics (5Vs) and Real-World Applications
- Internet of Things (IoT) & Smart Sensors
- Smart Cities — Technology-Driven Urban Planning
- Cloud Computing — Services: SaaS, IaaS, and PaaS
- Grid Computing
- Blockchain Technology

Presentation Structure (Minimum 12 Slides):

Slide	Content	What to Include
1	Title Slide	Topic name, your name, class, section, roll number
2	Introduction	Brief overview and why this technology matters today
3-4	Core Concepts	Key definitions, how it works, fundamental principles
5-6	How It Works	Working mechanism with diagrams or flowcharts
7-8	Real-World Applications	At least 4 real examples with visuals
9	Advantages & Limitations	Pros and cons in a comparison format
10	Impact on Society	Social, economic, and environmental impact
11	Future Scope	Emerging trends and where this technology is headed
12	References	All sources cited properly (APA or MLA format)

Design & Formatting Guidelines:

- Use a consistent, professional theme throughout the presentation.
- Each slide must have a title and relevant visuals (images, charts, or diagrams).
- Minimum font size: 20pt for body text; 28pt+ for headings.
- Do not copy-paste paragraphs of text — use concise bullet points only.
- Use at least one original diagram or flowchart (drawn/made by you).
- Images and data must be properly credited on the Reference slide.

Submission Details:

Google Form Link	https://forms.gle/4ou1PUwVBWJBrudr8
File Format	PowerPoint (.pptx) or PDF

File Naming	XI_Section_RollNo_YourName_EmergingTech.pptx
Submission Deadline	6 July 2026
Max File Size	20 MB

Evaluation Rubric (Total: 25 Marks):

Criteria	Excellent (5)	Good (4)	Satisfactory (3)	Needs Work (1-2)
Content Accuracy (8 marks)	Thorough, accurate, well-researched content covering all aspects	Mostly accurate with minor gaps	Basic coverage, some inaccuracies	Superficial or largely inaccurate
Slide Design (5 marks)	Professional, consistent, visually excellent with original diagrams	Good design, consistent theme	Adequate design, minor inconsistencies	Poor design, inconsistent
Real-World Examples (5 marks)	4+ compelling, well-explained examples with visuals	3 clear examples	2 examples, basic explanation	1 or no examples
Clarity & Structure (4 marks)	Perfectly structured, logical flow, concise bullet points	Good structure with minor issues	Somewhat structured	Confusing or no clear structure
References (3 marks)	All sources cited correctly in APA/MLA format	Most sources cited	Some sources cited	No references

PHYSICAL EDUCATION

Prepare a project on athletics containing topics

- 1- Layout of 400 metres. Track
 - 2- Stagger for all lanes
 - 3 - mention all track and field events
 - 4- one I
- O.A recognised game/sport mentioning
History
Layout

Techniques
Terminologies
Skills
Arjuna awardees

PSYCHOLOGY

1.Revision Work

Revise and complete notes, assignments, and exercises for:
Chapter 1 Chapter 2

Ensure all classwork and homework are neatly updated.

2.Survey Project

Title: “A Comparative Survey on the Use of Artificial Intelligence Tools and Its Impact on Decision Making Among Adolescents and Their Parents”

Guidelines:

Minimum sample size: 10 adolescents, 10 parents

Prepare a questionnaire (10–12 questions)

Collect responses and organize data

Project Format:

- Title Page
- Aim of the Study
- Objectives
- Methodology (Sample, Tools used)
- Questionnaire
- Data Collection (Table/Graph)
- Analysis & Interpretation
- Conclusion

ECONOMICS

Complete Economics Project File on the assigned topic.

Imp- Strictly follow Project Instruction PDF while completing Project.

YOGA

Yoga Practical File Topics

You can include the following topics in your practical file:

1. Introduction to Yoga
2. Meaning, Importance and Objectives of Yoga
3. Principles of Yoga
4. Ashtanga Yoga by Patanjali
5. Yogic Practices for Health and Wellness
6. Standing Asanas

- Tadasana
- Vrikshasana
- Trikonasana
- 7. Sitting Asanas
 - Padmasana
 - Vajrasana
 - Paschimottanasana
- 8. Prone Position Asanas
 - Bhujangasana
 - Shalabhasana
 - Dhanurasana
- 9. Supine Position Asanas
 - Pavanamuktasana
 - Setubandhasana

Project file

Choose any one topic for detailed project work:

1. Role of Yoga in Daily Life
2. Importance of Yoga for Students
3. Yoga and Stress Management
4. Yoga for Physical Fitness
5. Yoga for Mental Health
6. Obesity Management through Yoga
7. Diabetes Management through Yoga

MARKETING

- 1) Complete the Project File as directed in the Project Guidelines shared in the Marketing group.
- 2) Prepare for the upcoming assessment in the month of July.

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