



PRAGYAN

SENIOR SECONDARY SCHOOL,
ITARSI

HOLIDAY HOMEWORK

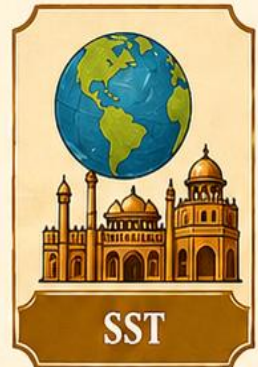
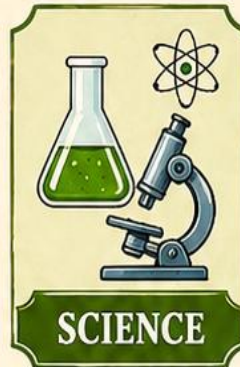
NAME : _____

CLASS : 9th

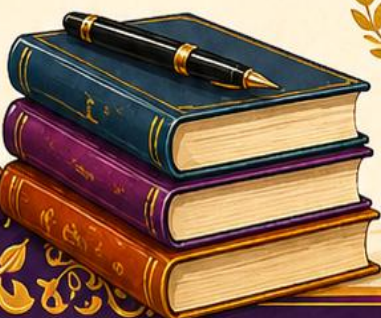
ROLL NO. : _____

SESSION : 20____ - 20____

SUBJECTS



*Learn, Explore, Create
and Grow Every Day!*



English

Week 1

Read a book.(The fault in our stars)

Revise grammar Topic 1.

Make note on a topic "Computers and mobiles were invented to save our time". Has this been proven correct. Think about it and share your thoughts.

Help your mother in house chores.

Week 2

Read the book.

Revise grammar Topic 2

How will you make a choice. have you ever had to make a difficult choice write a paragraph about it.

Watch an inspirational movie with English subtitles.

Week 3

Read the book.

Revise Grammar Topic 3.

Watch an inspirational movie with English subtitles

Week 4

Complete the book.

Revise Grammar Topic 4.

Prepare a brochure(scrap book) of some Maestro who played significant role in music. Write their achievements(at least 2-3 lines) and paste their pictures.

Keep learning new words and improve vocabulary. Learn at least 5 words a day.

Instructions:

Parents are requested to help their wards to complete the Homework.

Prepare for the upcoming exam.

Use a scrap book to complete the writing and project work in it.

Hindi

☞ □ **Section A - Reading & Writing Skills**

1. □ पठन कार्य अपनी हिन्दी पुस्तक (नई - "गंगा") से कोई 2 गद्य + 2 पद्य पाठ पढ़ें
प्रत्येक पाठ का: सारांश (100-150 शब्द) कठिन शब्दार्थ
2. □ रचनात्मक लेखन निम्न में से कोई 3 कार्य करें:
मेरा प्रिय पर्व (Essay)
मेरा सपना भारत (Paragraph)
पर्यावरण बचाओ (Poster + Slogan)
एक दिन बिना मोबाइल (Diary Entry)

□ **Section B - Activity Based Learning**

3. □ भूमिका अभिनय (Role Play) किसी एक कहानी/पाठ का डायलॉग बनाकर वीडियो रिकॉर्ड करें
4. □ साक्षात्कार (Interview Activity) अपने परिवार के किसी बड़े सदस्य का इंटरव्यू लें
विषय: "उनके समय का जीवन और आज का जीवन"
5. □ चार्ट कार्य (Chart Work) विषय चुनें: मुहावरे (10) + वाक्य
अलंकार (उपमा, रूपक, अनुप्रास) संज्ञा, सर्वनाम, विशेषण (Examples)

□ **Section C - Grammar (व्याकरण)** नई सिलेबस के अनुसार व्याकरण निम्न अभ्यास करें:

20 मुहावरे + वाक्य 10 समानार्थी शब्द 10 विलोम शब्द लिंग, वचन, काल के उदाहरण

□ **Section D - Creative Thinking**

6. ✎ □ कहानी लेखन विषय: "अगर मैं प्रधानाचार्य होता/होती" (150-200 शब्द)
7. □ चित्र वर्णन -कोई एक चित्र बनाकर उसका वर्णन लिखें (100 शब्द)

□ **Section E - Digital & Practical Task**

8. □ प्रेजेंटेशन / वीडियो विषय चुनें: हिन्दी भाषा का महत्व सोशल मीडिया का प्रभाव
PT / Video (2-3 मिनट)

□ **Section F - Project Work**

- प्रोजेक्ट विषय (कोई एक)

भारतीय संस्कृति और भाषा

पर्यावरण संरक्षण

ग्रामीण और शहरी जीवन तुलना □ शामिल करें:- परिचय, चित्र, 5-6 मुख्य बिंदु, निष्कर्ष

- **Bonus Task (Optional)** प्रतिदिन 10 मिनट हिन्दी समाचार सुनें/पढ़ें एक शब्द डायरी बनाएं (20 नए शब्द)

□ **Presentation Instructions** साफ-सुथरी लिखावट, रंगीन पेन/चित्रों का उपयोग, A4 फाइल / प्रोजेक्ट फाइल में जमा करें।

Maths

Chapter 1: Number System, Chapter 6: Lines and Angle

Chapter 1: Number System

□ Project Work Topic: Real Numbers in Daily Life

Introduction: Define number system (Natural, Whole, Integers, Rational, Irrational numbers).

Collect examples of numbers used in real life: $\sqrt{2}$ (Irrational number in geometry)

Representation on Number Line

Draw number line and represent: $\sqrt{2}$, $\sqrt{3}$, 1.5, -2

Write importance of number system in daily life (banking, measurement, etc.)

⇒ □ Numerical Questions

Classify the numbers as Rational or Irrational:

(a) $\sqrt{5}$

(b) $7/8$

(c) 0.1010010001...

(d) 3.14

Express the following in decimal form:

(a) $3/8$

(b) $7/11$

Represent $\sqrt{2}$ on number line (construction activity).

Simplify:

(a) $\sqrt{50}$

(b) $\sqrt{72}$

Find whether the following are rational:

(a) 0.121212...

(b) $\sqrt{7}$

□ Chapter 6: Lines and Angles

□ Project Work Topic: Lines and Angles Around Us

Introduction: Define line, line segment, ray, angle.

Real-Life Examples

Railway tracks → Parallel lines

Scissors → Intersecting lines

Clock → Angles

Types of Angles

Acute, Right, Obtuse, Straight, Reflex (draw diagrams)

Draw two parallel lines cut by a transversal.

Show:

Corresponding angles

Alternate angles

Co-interior angles

Conclusion

Importance of angles in construction, engineering, etc.

⇒ □ Numerical Questions

Find the complement of:

(a) 35°

(b) 60°

Find the supplement of:

(a) 120°

(b) 95°

If two angles are complementary and one is 30° , find the other.

If two angles are supplementary and one is 110° , find the other.

In the figure, if two lines intersect and one angle is 70° , find all other angles.

If two parallel lines are cut by a transversal and one angle is 65° , find:

Corresponding angle

Alternate angle

Verify that vertically opposite angles are equal (by drawing diagram).

□ General Instructions

Use A4 sheets for project work.

Draw neat diagrams using pencil and scale.

Write answers clearly with steps.

Submit in a proper file or notebook.

Science

1. Investigative Project (Choose ONE)

Make a detailed project report (5–6 pages) with pictures and diagrams:

a. Study the effect of different types of soil on plant growth

b. Compare the effectiveness of different natural indicators for acids and bases

c. Investigate air or water pollution in your locality – causes, effects, and solutions

2. Creative Science Magazine

Design a mini science magazine titled “Science Matters” (8–10 pages):

- *Science news or discoveries*
- *A short article on “Why Do We Fall Ill?”*
- *A comic or poem on “Laws of Motion”*
- *Fun science quiz or crossword (include answers)*
- *Science facts section (“Did You Know?”)*

3. DIY Science Model / Experiment

Choose one and document it step-by-step (photos or video):

- *Newton’s Cradle or Balloon Rocket (Laws of motion)*
- *Electrolysis of water (Working model)*
- *Homemade pH Indicator using red cabbage or turmeric*

Include:

- *Aim*
- *Materials*
- *Procedure*
- *Observations*
- *Conclusion*

4. Science & Society Research

Write a short research essay (2–3 pages) on any one:

- *How science has helped in the fight against COVID-19 or HMPV*
- *Role of science in sustainable development*
- *Women in Science: Achievements and challenges*

5. Science Cartoon / Poster Making

Draw a creative poster on:

- *“Save Earth with Science”*
- *“Say No to Plastics”*
- *“Health is Wealth: Hygiene and Immunity”*

6. Write the answers of the following questions in your copy. And learn also.

Chapter- Matter in over surroundings

1. Define matter.
2. What is diffusion?
3. Name the state of matter which has:
 - (a) Definite shape and volume
 - (b) No definite shape but definite volume
4. What happens to the particles of a solid when it is heated?
5. Differentiate between solids, liquids, and gases based on: Shape , Compressibility
6. Define latent heat of fusion. What is its value for ice?
7. Why does the temperature remain constant during the change of state of a substance?
8. Why do we feel cool when sweat evaporates from our body?
9. Why is it advisable to put wet cloth on the forehead of a person having high fever?
10. Describe an activity to show that particles of matter are continuously moving.
11. With the help of a diagram, explain the change of states of matter using the water cycle as an example.
12. Explain the effect of pressure and temperature on the states of matter.
13. Explain the process of evaporation. State the factors affecting evaporation and their effect
14. Why does a gas fill the container completely but a liquid does not?
15. Dry ice is used for cooling purposes. Explain why.
16. Two substances A and B have melting points 300°C and 1500°C respectively. Which one has stronger intermolecular forces and why?

Chapter - The fundamental unit of life

1. Who discovered the cell and in which year?
2. What is the function of the plasma membrane?
3. Name the organelle known as the powerhouse of the cell.
4. What is the full form of DNA?
5. Which organelle helps in detoxifying poisons and drugs in the liver cells?
6. What are the differences between plant and animal cells?

7. What is osmosis? How is it different from diffusion?
8. Why are lysosomes called suicide bags of the cell?
9. What will happen if the Golgi apparatus is removed from the cell?
10. Write any three functions of the endoplasmic reticulum.
11. Describe the structure and function of the nucleus in a cell.
12. Explain the structure of the plasma membrane with the help of a labeled diagram.
13. Differentiate between prokaryotic and eukaryotic cells with any five points.
14. Draw a well-labeled diagram of a plant cell and an animal cell. Highlight 3 major differences
15. Why do plant cells have large vacuoles whereas animal cells have small ones?
16. A cell has mitochondria, nucleus, ribosomes, and a cell wall. Is it a plant or animal cell? Justify.
17. Why do cells shrink when placed in a hypertonic solution?

Complete your copy work

Social Science

Introduction

Fundamental Rights

Meaning

Articles (12-35)

Types of Fundamental Rights

Right to Equality

Right to Freedom

Right against Exploitation

Right to Freedom of Religion

Cultural & Educational Rights

Right to Constitutional Remedies

Fundamental Duties

Meaning

Article 51A

42nd Amendment (1976)

□ List of Fundamental Duties

□ Importance of Fundamental Rights

□ Importance of Fundamental Duties

□ Difference between Rights and Duties

□ Conclusion

□ Bibliography...

You should have to example all this in class..

Computer

NOTE :- ALL STUDENT HAVE TO COMPLETE THEIR FAIR COPY, TEXT BOOK WORK.

Part - A

Unit :- 1 and 2

Q1 Learn all question and answers of all chapters.

Q2 Draw the communication cycle with their names.

Q3 Discuss the methods of communication with figure.

Q4 Give a short brief about the basic writing skills.

Q5 Write a note about self management skill and development of self confidence.

Q6 Make an invitation poster of a "AI AND ROBOTICS EXHIBITION" in Ms word by using all formatting features in a sheet.
