

SAINIK SCHOOL KUNJPURA, KARNAL

VACATION TASK FOR CLASS VIII

(2026-27)

MATHEMATICS

Book: Ganita Prakash

Chapter 1 – A Square and A Cube (40 Questions)

1. What is a perfect square?
2. What is a perfect cube?
3. Find the square of 12.
4. Find the cube of 5.
5. Write the square root of 169.
6. Write the cube root of 216.
7. Is 225 a perfect square?
8. Is 343 a perfect cube?
9. Write first five square numbers.
10. Write first five cube numbers.
11. 14^2
12. 18^2
13. 25^2
14. 32^2
15. 41^2
16. 55^2
17. 67^2
18. 75^2
19. 90^2
20. 99^2
21. $\sqrt{64}$
22. $\sqrt{121}$
23. $\sqrt{196}$
24. $\sqrt{289}$
25. $\sqrt{400}$
26. $\sqrt{625}$
27. $\sqrt{729}$
28. $\sqrt{900}$
29. $\sqrt{1024}$
30. $\sqrt{1444}$
31. 6^3
32. 8^3
33. 12^3
34. $\sqrt[3]{125}$
35. $\sqrt[3]{729}$
36. Area of square park (side 15m).
37. Volume of cube box (side 4cm).
38. Smallest number multiplied by 8 to make perfect cube.
39. Area of square field = 625 m^2 , find side.
40. Volume of cubical tank (side 10m).

Chapter 2 – Power Play (40 Questions)

1. Read down the chapter Electricity: heating and magnetic effect, thoroughly and Write down 10 very short questions , 5 short question and 2 long question based on
2. Application-Based Questions
 - Why should we not touch electric switches with wet hands?
 - Why are heating appliances made of materials with high resistance?
 - Why is fuse important in electrical appliances?
 - Where do we use electromagnets in daily life?
3. Make a chart or model on:
 - a. “Uses of Electricity in Daily Life”
 OR
 - b. “Magnetic Effects of Electric Current

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Holiday Homework: Wind, Storms and Cyclones
 Class 8 |
Chemistry

Instructions: Do all tasks neatly on A4 sheets or in your project file. Use diagrams, color, and real examples wherever possible.

Task 1: Cyclone Case Study – “Know Your Disaster”

What to do: Pick any one cyclone that hit India in the last 5 years — e.g., Cyclone Biparjoy 2023, Yaas 2021, Tauktae 2021, Amphan 2020.

Your work:

1. ***Fact File:*** Name, year, affected states, wind speed, category.
2. ***Cause:*** In 3-4 lines, explain why cyclones form mainly in Bay of Bengal/Arabian Sea.
3. ***Damage & Safety:*** List 3 major damages it caused and 3 safety measures people took.
4. Paste 1 news clipping or map of its path.

Task 2: Air Pressure Model – Science at Home

What to do: Understand how air pressure differences create wind.

Activity: Take 2 balloons, 1 empty plastic bottle. Fix a balloon on the bottle’s mouth. Put the bottle in hot water — balloon inflates. Now put it in cold water — balloon deflates.

Your work:

1. Draw before & after diagrams of the experiment.
2. Explain in 4-5 lines: How does this show the relation between temperature and air pressure?
3. How is this related to wind formation?

Task 3: Safety Comic – “When a Cyclone Warning Comes”

What to do: Imagine IMD issues a cyclone warning for your district.

Your work: Create a 6-box comic strip titled ***“Be Ready, Be Safe”*** showing:

1. What to pack in an emergency kit
2. What to do if you live in a kutchha house
3. Why you should not spread rumors
4. 3 important helpline numbers

Keep it colorful and informative.

(C)How can we apply the poem’s message in our daily lives?

2. **CHARACTER ANALYSIS:** Write a character sketch (80-100 words) on any two:
- a) Tenali Rama
 - b) Mrs. Jones
 - c) Dev Datt OR Ram Datt
 - d) The King of Ujjain

Include the following points: Qualities, behaviour, strengths, values, lessons learnt.

3. **REAL-LIFE REFLECTION QUESTIONS** (Answer any one in about 100-150 words.)

Tenali Rama solved problems through intelligence and humour instead of anger.

Describe a situation in school or at home where using calmness and wit can solve a problem better than fighting or shouting.

Hints for students: Think about arguments among friends or siblings, Explain what usually happens when people become angry, Explain how calm words or humour can improve the situation, Mention what you would do.

OR

Tenali Rama won everyone’s hearts because he was clever yet humble.

Why is humility important along with intelligence?

Hints for students: Can intelligent people become arrogant? Why do humble people earn more respect? Give an example from school life.

4. **DIARY ENTRY (100-120 words)**

Imagine you are one of the four young men after being appointed advisers by the King. Write a diary entry expressing: your emotions, struggles, success, lessons learnt from the journey.

5. **READING ACTIVITY** (200 words): Read any one inspirational story related to wisdom, intelligence or kindness and write:

Title of the story, Main character, Moral, Connection with the lessons studied

6. **POSTER MAKING:** Prepare a colourful poster on any one topic: (Add suitable slogans)
- a) “Wisdom is Better than Wealth”
 - b) “Respect Different Perspectives”
 - c) “Observe Before You Judge”
 - d) “Intelligence Wins Hearts”

7. To revise the syllabus & grammar topics completed in the class for Pre-Mid Term exam. (NOTE: Activities mentioned from Sr No. 1 to 5 to be done in English Homework copy)

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CLASS VIII, SUB-GEOGRAPHY

Q1. Prepare project on the topics given below as per your Roll Nos / Class Sr No.

| ROLL NUMBERS | TOPICS |
|--------------|--|
| 1 to 9 | Prepare a detailed project on the International Solar Alliance – India’s Leadership In renewable energy. |
| 10 to 17 | Prepare a detailed project on any international conflict related to the distribution of the resources. |

Prepare a colourful timeline showing important milestones in Indian elections:

- * 1951–52 : First General Elections
- * Lowering of voting age from 21 to 18 years
- * Introduction of Electronic Voting Machines (EVMs)
- * Introduction of VVPAT
- * Recent General Elections

Add pictures/symbols wherever possible.

Activity 3 – Elections Held in 2026

Collect information about important elections held in India during 2026.

You may include:

- * State Assembly Elections
- * Panchayat Elections
- * Municipal Elections
- * Bye-elections
- * Student Council Elections (if any nearby)

For each election, mention:

1. Name of the State/Area
2. Date/Month
3. Main political parties/candidates
4. Winning party/candidate
5. Voter turnout (if available)
6. One important issue discussed during the election

Paste newspaper clippings or printouts related to the elections.

Activity 4 – Mock Election Project

Conduct a mock election at home or among friends/cousins for any ONE topic:

Examples:

- * Favourite Sport
- * Best Indian Leader
- * Best School House
- * Favourite Subject

Include:

1. Candidate Names
2. Election Symbols

3. Campaign Posters/Slogans

4. Voting Slip Design

5. Result Chart

Write a brief report on:

* How voting was conducted

* Total votes received

* Winner declaration

Activity 5 – Survey on Voting Awareness

Interview any 5 adults in your locality/family.

Ask:

1. Why is voting important?

2. Have they voted before?

3. What qualities should a good leader have?

4. Should young people participate actively in democracy?

Prepare the responses in a table format.

Activity 6 – Creative Poster Making

Make any ONE poster on:

* “Every Vote Matters”

* “Be a Responsible Citizen”

* “Power of Democracy”

* “Vote for a Better India”

Use attractive slogans and drawings.

Activity 7 – Election Symbols Research

Collect and paste pictures/drawings of any 10 election symbols used by political parties in India.

Write:

* Name of the political party

* Meaning/significance of the symbol

Activity 8 – Essay Writing

Write an essay (250–300 words) on:

“Why Elections are Important for Democracy”

OR

“My Role as a Future Responsible Voter”

Activity 9 – Current Affairs Corner

Prepare a “2026 Election News Board” by collecting:

- * Newspaper headlines
- * Photos of rallies or voting
- * Election advertisements
- * Awareness campaigns

Write one paragraph summarising what you learnt about the electoral process.

Learning Outcomes

Students will:

- * Understand India’s democratic and electoral system.
 - * Develop awareness about voting rights and responsibilities.
 - * Learn about current elections in India during 2026.
 - * Improve research, presentation, and analytical skills.
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Submission Date

First week after reopening of school.

Subject Teacher Signature: _____

Student Name: _____