



RMS Class 9 Syllabus

Complete Subject-wise Guide for Rashtriya Military Schools CET

Prepared by Young Star Defence Academy

Mathematics

Science

English

Hindi

Social Science

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Section 1: Introduction to RMS CET

The **Rashtriya Military Schools (RMS) Common Entrance Test (CET)** is conducted annually by the Ministry of Defence for admission to Class 9 in the five prestigious Rashtriya Military Schools — Ajmer, Belgaum, Bangalore, Chail, and Dholpur. These schools combine academic excellence with physical development and strong character building.

Eligibility Criteria

- Age: Between 13 to 15 years as on 31st March of the year of admission
- Class: Studying in or having passed Class 8 at the time of application
- Gender: Open to boys and girls
- Nationality: Indian citizens only

Key Fact: The RMS Class 9 syllabus is based on the CBSE Class 8 curriculum. Students with a strong NCERT foundation have a significant advantage.

Section 2: RMS Class 9 Exam Pattern

Subject	Maximum Marks
English	50
Hindi	20
Social Science	30
Mathematics	50
Science	50
Total	200

Mode of Exam	Offline (Pen & Paper)
Question Type	Objective (MCQ)
Answer Sheet	OMR Based
Total Marks	200

Duration	3 Hours
Negative Marking	None
Medium	English & Hindi

Important: There is NO negative marking in RMS CET. Attempt every question — even an educated guess can earn marks. Never leave a question blank!

Section 3: Mathematics Syllabus (50 Marks)

Number System

- Rational Numbers – operations, properties, number line representation
- Exponents and Powers – laws of exponents, scientific notation
- Square and Cube Roots

Algebra

- Linear Equations in One Variable
- Algebraic Identities – $(a+b)^2$, $(a-b)^2$, $(a+b)(a-b)$
- Factorisation – common factors, regrouping, using identities

Commercial Mathematics

- Percentage – increase, decrease, applications
- Profit and Loss – SP, CP, gain/loss percentage
- Discount – marked price, successive discount
- Simple Interest and Compound Interest (half-yearly, quarterly)

Geometry

- Lines and Angles – pairs of angles, transversal properties
- Triangles – congruency, similarity, Pythagoras theorem
- Quadrilaterals – parallelogram, rhombus, trapezium
- Practical Geometry – constructions

Mensuration

- Area – triangles, quadrilaterals, circles
- Surface Area and Volume – cube, cuboid, cylinder

Data Handling

- Bar Graphs and Pie Charts
- Statistics – mean, median, mode
- Introduction to Probability

High Weightage: Commercial Mathematics (Profit & Loss, CI/SI), Algebra (Factorisation, Identities) and Mensuration. Practise 20 questions daily.

Section 4: Science Syllabus (50 Marks)

Physics

- Force and Pressure – types of force, atmospheric pressure
- Friction – types, advantages and disadvantages
- Sound – propagation, characteristics, echo, SONAR
- Light – reflection, laws of reflection, types of mirrors

Chemistry

- Metals and Non-metals – properties, uses, reactivity
- Coal and Petroleum – natural resources, conservation
- Combustion and Flame – types, calorific value
- Synthetic Fibres and Plastics – types, properties

Biology

- Crop Production and Management
- Microorganisms – types, useful and harmful, antibiotics
- Cell Structure and Functions – plant vs animal cell
- Reproduction in Animals – sexual and asexual
- Conservation of Plants and Animals – sanctuaries, national parks

Tips: Draw and label Biology diagrams. Memorise Physics formulae with SI units. Make a Metals vs Non-metals comparison chart. NCERT Class 8 Science is the primary reference.

Section 5: English Syllabus (50 Marks)

Grammar

- Parts of Speech – Noun, Pronoun, Verb, Adjective, Adverb, Preposition, Conjunction
- Tenses – Simple, Continuous, Perfect (Present, Past, Future)
- Voice – Active and Passive Voice
- Narration – Direct and Indirect Speech
- Modals – can, could, may, might, shall, should, will, would, must
- Articles and Prepositions

Vocabulary

- Synonyms and Antonyms
- One Word Substitution
- Idioms and Phrases
- Spelling Correction

Reading & Writing Skills

- Unseen Comprehension Passage
- Sentence Correction and Rearrangement
- Error Detection and Gap Filling

Focus on Tenses, Voice, and Narration — highest-scoring grammar areas. Build vocabulary with 10 new words daily. Read an English newspaper for 15 minutes daily.

Section 6: Hindi Syllabus (20 Marks)

Vyaakaran – Grammar

- Sangya (Noun), Sarvnam (Pronoun), Visheshan (Adjective), Kriya (Verb)
- Kaal – Bhootakaal, Vartamaan, Bhavishy
- Vachan aur Ling (Number and Gender)
- Upsarg aur Pratyay (Prefix and Suffix)

Shabd Bhandar – Vocabulary

- Paryayvachi Shabd (Synonyms)
- Vilom Shabd (Antonyms)
- Muhavare evam Lokoktiyaan (Idioms and Proverbs)
- Shuddh Vartani (Correct Spellings)

Pathana Kaushal – Reading Skills

- Apathit Gadyansh (Unseen Prose Passage)
- Apathit Padyansh (Unseen Poetry Passage)

Hindi Tip: Focus on Vyaakaran and Paryayvachi/Vilom – they account for the majority of marks. Practise unseen passages daily to improve speed.

Section 7: Social Science Syllabus (30 Marks)

History

- How, When and Where – sources of modern Indian history
- From Trade to Territory – establishment of British rule
- The Great Revolt of 1857 – causes, events, consequences
- National Movement – early nationalists, Gandhian era

Geography

- Resources – types and conservation
- Agriculture – types, major crops, agricultural reforms
- Industries – types, location factors, major industries
- Human Resources – population distribution and density

Civics / Political Science

- The Indian Constitution – features and significance
- Parliament and the Making of Laws
- Judiciary – structure, functions, independence
- Fundamental Rights and Duties of citizens

Section 8: Subject-wise Preparation Strategy

Mathematics

- ✓ Master NCERT Class 8 Maths before moving to reference books
- ✓ Solve 30 problems daily – mix of topics
- ✓ Focus on Commercial Maths, Mensuration and Algebra
- ✓ Take timed mock tests every weekend
- ✓ Create and revise a formula sheet every morning

Science

- ✓ Read NCERT Class 8 Science chapter by chapter with notes
- ✓ Draw and label all Biology diagrams
- ✓ Memorise Physics formulae and SI units
- ✓ Make a Metals vs Non-metals comparison chart
- ✓ Solve 20 MCQs per chapter after completing it

English

- ✓ Learn 10 new words (with synonyms/antonyms) daily
- ✓ Practise grammar with exercises from Wren & Martin
- ✓ Read an English newspaper 15 minutes daily
- ✓ Focus on Tenses, Voice, Narration – highest scoring areas
- ✓ Maintain an idioms and phrases notebook, review weekly

Social Science

- ✓ Make timeline charts for all History chapters
- ✓ Draw India's political map marking major resources
- ✓ Prepare one-page summary notes for each chapter
- ✓ Use flashcards for Civics definitions
- ✓ Attempt MCQs from Lucent's GK for extra revision

Golden Rule: Consistency beats intensity. Study 4–5 focused hours daily with proper breaks rather than cramming. Defence aspirants are built on discipline.

Section 9: Recommended Books & Resources

Book / Resource	Publisher	Subject
NCERT Mathematics Class 8	NCERT	Mathematics
NCERT Science Class 8	NCERT	Science
NCERT Social Science Class 8	NCERT	Social Science
NCERT Hindi & English Class 8	NCERT	Hindi / English
RMS / RIMC / Sainik School Guide	Arihant Publications	All Subjects
Wren & Martin English Grammar	S. Chand	English
Lucent's General Knowledge	Lucent Publications	Soc. Science/GK
RS Aggarwal Mathematics Class 8	S. Chand	Mathematics
RMS Previous Year Papers (10 Years)	Various Publishers	All Subjects
YSDA Study Material & Mock Tests	Young Star Def. Academy	All Subjects

Section 10: 90-Day Study Plan

Phase 1 — Foundation (Day 1–30)

Week	Focus Area	Daily Target
Week 1	Mathematics: Number System, Algebra	2 chapters + 30 MCQs
Week 2	Mathematics: Commercial Maths, Mensuration	2 chapters + 30 MCQs
Week 3	Science: Physics + Chemistry	1 chapter each + 20 MCQs
Week 4	Science: Biology + English Grammar	Mixed topics + 25 MCQs

Phase 2 — Practice (Day 31–60)

Week	Focus Area	Daily Target
Week 5	Social Science: History + Geography	2 chapters + 20 MCQs
Week 6	Social Science: Civics + Hindi	2 chapters + 25 MCQs
Week 7	English: Vocabulary + Grammar Revision	50 vocab + 2 tests
Week 8	All Subjects: Chapter-wise Tests	1 subject test/day

Phase 3 — Revision & Mock Tests (Day 61–90)

Week	Activity	Target Score
Week 9	Full Syllabus Rapid Revision	Complete all notes
Week 10	Mock Test 1 & 2 + Analysis	160+/200
Week 11	Weak Areas + Mock Test 3 & 4	170+/200
Week 12	Final Revision + Mock Test 5 + Rest	175+/200

Daily Timetable

Time Slot	Activity	Duration
5:30–6:00 AM	Morning Exercise / Meditation	30 min
6:00–7:30 AM	Mathematics Practice	90 min
8:00–9:30 AM	Science / Social Science	90 min
9:30–10:30 AM	English Grammar / Vocabulary	60 min
11:00–12:00 PM	Hindi + Current Affairs	60 min
4:00–5:30 PM	Revision of Morning Topics	90 min
6:00–7:00 PM	Mock Test / Previous Year Papers	60 min
8:30–9:00 PM	Night Revision – Formula/Vocab Review	30 min

Section 11: Frequently Asked Questions

Q1. What is the RMS Class 9 entrance exam syllabus?

Ans: Five subjects: Mathematics (50), Science (50), English (50), Social Science (30), Hindi (20). Total 200 marks. Based on CBSE Class 8 curriculum.

Q2. What is the age limit for RMS Class 9 admission?

Ans: Candidates must be between 13 to 15 years as on 31st March of the year of admission.

Q3. Is RMS Class 9 open to girls?

Ans: Yes. RMS Class 9 admission is open to both boys and girls. Indian citizenship is mandatory.

Q4. Is there negative marking in RMS CET?

Ans: No. There is no negative marking. Attempt every question.

Q5. Which books are best for RMS Class 9 preparation?

Ans: Start with NCERT Class 8 (all subjects). Then use Arihant RMS Guide, Wren & Martin (English), RS Aggarwal (Maths), and previous year papers.

Q6. How many RMS schools are there in India?

Ans: Five: RMS Ajmer (Rajasthan), RMS Belgaum (Karnataka), RMS Bangalore (Karnataka), RMS Chail (Himachal Pradesh), RMS Dholpur (Rajasthan).

Q7. Is there an interview after the written test?

Ans: Yes. CET qualifiers appear for a Medical Examination and Interview/PPDT. Final selection is based on combined performance.

Q8. What is the total duration of RMS CET?

Ans: 3 hours, conducted as a single session with OMR answer sheets.

Q9. When is the RMS Class 9 application form released?

Ans: Usually between September and November each year. Check the Ministry of Defence website for exact dates.

Q10. How should I prepare Mathematics for RMS CET?

Ans: Complete NCERT Class 8 Maths first. Focus on Commercial Mathematics, Mensuration and Algebra. Practise 30 MCQs daily.

Q11. What type of questions are asked in RMS CET?

Ans: All questions are objective type (MCQ) with four options, answered on an OMR sheet.

Q12. How many marks are needed to qualify?

Ans: Cutoffs vary yearly. Generally 140–160+ out of 200 improves chances significantly. Official cutoffs are released by the Ministry of Defence.

Q13. Does YSDA offer RMS Class 9 coaching?

Ans: Yes. Young Star Defence Academy offers dedicated RMS Class 9 coaching with study material, mock tests, online/offline classes and personal guidance. Call +91 8101313136.

Q14. How long should I prepare for RMS Class 9?

Ans: A dedicated 3–6 month preparation window is ideal to complete the syllabus, revise and practise mock tests.

Q15. Is RMS education subsidised?

Ans: Yes. Tuition is free for wards of defence personnel. Civilians pay a nominal fee. Hostel and food are provided on campus.

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