



Regional Institute of Technologists & Analysts

RITA ACME FOCUS PRIVATE LIMITED

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CLASS VIII SYLLABUS FOR THE YEAR OF 2026

SUBJECT	MATH	MARKS	TIME
MONTH 1	Rational Numbers, Exponents and Powers	25	30 Mins
MONTH 2	Rational Number, Rule of Three, Percentage	25	30 Mins
MONTH 3	Number Theory, Set Theory	25	30 Mins
MONTH 4	Comparing Quantities, Linear Equations in One Variable	25	30 Mins
MONTH 5	Average, Frequency Distribution, Graph + Rational Number, Rule of Three, Percentage + Profit & Loss, Mixture, Time and Work + Algebraic Simplification, Multiplication & Division, Algebraic Formula	50	60 Mins
MONTH 6	Factorization, HCF & Simplification, Simple Equation	25	45 Mins
MONTH 7	Geometry (Triangles, Quadrilaterals), Exponents	25	45 mins
MONTH 8	Square Root, Cube Root, Set, Simple Interest, Compound Interest	25	45 Mins
MONTH 9	Direct and Inverse Variation, Linear Inequation, Circumference & Area of Circle, Area and Volume, Data Handling & Probability	25	45 Mins
MONTH 10	Factorization, HCF & Simplification, Simple Equation + Geometry (Triangles, Quadrilaterals), Exponents + Square Root, Cube Root, Set, Simple Interest, Compound Interest + Direct and Inverse Variation, Linear Inequation, Circumference & Area of Circle, Area and Volume, Data Handling & Probability	35	60 Mins
MONTH 11	M1 TO M10 (PART 1)	45	75 Mins
MONTH 12	M1 TO M10 (PART 2)	45	75 mins

SUBJECT	PHYSICS	MARKS	TIME
MONTH 1	Matter, Physical Quantities and Measurement	25	30 Mins
MONTH 2	Force, Pressure and Motion	25	30 Mins
MONTH 3	Work and Power, Energy	25	30 Mins
MONTH 4	Work and Power, Energy	25	30 Mins
MONTH 5	Matter + Force + Work + Energy	50	60 Mins
MONTH 6	Light	25	45 Mins
MONTH 7	Heat Transfer	25	45 mins
MONTH 8	Sound	25	45 Mins
MONTH 9	Electricity	25	45 Mins
MONTH 10	Light + Heat Transfer + Sound + Electricity	35	60 Mins
MONTH 11	M1 TO M10 (PART 1)	45	75 Mins
MONTH 12	M1 TO M10 (PART 2)	45	75 mins

SUBJECT	CHEMISTRY	MARKS	TIME
MONTH 1	Carbon and its Compounds	25	30 Mins
MONTH 2	Types of Chemical Reactions	25	30 Mins
MONTH 3	Synthetic Fibres	25	30 Mins
MONTH 4	Metals and Non-metals	25	30 Mins
MONTH 5	Kinetic Theory and Combustion + Physical and Chemical Changes; Fuels + Elements, Compounds, and Mixtures + Atomic Structure and Synthetic Materials	50	60 Mins
MONTH 6	Chemical Formulae and Equations	25	45 Mins
MONTH 7	Types of Chemical Reactions	25	45 mins
MONTH 8	Hydrogen	25	45 Mins
MONTH 9	Solutions, Water, and Carbon Compounds	25	45 Mins
MONTH 10	Chemical Formulae and Equations + Types of Chemical Reactions + Hydrogen + Solutions, Water, and Carbon Compounds	35	60 Mins
MONTH 11	M1 TO M10 (PART 1)	45	75 Mins
MONTH 12	M1 TO M10 (PART 2)	45	75 mins

SUBJECT	BIOLOGY	MARKS	TIME
MONTH 1	Transport of Food and Minerals in Plants	25	30 Mins
MONTH 2	Ecosystems and Environment	25	30 Mins
MONTH 3	Transportation in Plants, Reproduction in Plants and Organisms	25	30 Mins
MONTH 4	Ecosystems, Food Chains and Energetics, Circulatory System	25	30 Mins
MONTH 5	Transport of Food and Minerals in Plants + Reproduction in Plants and Animals + Ecosystems + Circulatory System	50	60 Mins
MONTH 6	Nervous System	25	45 Mins
MONTH 7	Disease and First Aid	25	45 mins
MONTH 8	Crop Production and Management	25	45 Mins
MONTH 9	Endocrine System and Hormones	25	45 Mins
MONTH 10	Nervous System + Disease and First Aid + Crop Production and Management + Endocrine System and Hormones	35	60 Mins
MONTH 11	M1 TO M10 (PART 1)	45	75 Mins
MONTH 12	M1 TO M10 (PART 2)	45	75 mins

SUBJECT	BENGALI	MARKS	TIME
MONTH 1	সন্ধি, লিঙ্গ	25	30 Mins
MONTH 2	সমাস	25	30 Mins
MONTH 3	বচন, সমাস, লিঙ্গ	25	30 Mins
MONTH 4	সাধু ও চলিত রীতি, সমার্থক শব্দ, বচন, বাক্য ও বাক্য পরিবর্তন	25	30 Mins
MONTH 5	সন্ধি + সমাস + উপসর্গ + বচন + বাক্য পরিবর্তন + কারক ও বিভক্তি + সমার্থক শব্দ + সাধু-চলিত রীতি + পদান্তর/বিশেষণ	50	60 Mins
MONTH 6	বিপরীত শব্দ, প্রত্যয়	25	45 Mins
MONTH 7	পদ পরিবর্তন, বর্ণ বিশ্লেষণ	25	45 mins
MONTH 8	অশুদ্ধি সংশোধন, শব্দ গঠন	25	45 Mins
MONTH 9	সর্বনাম, অব্যয়, ক্রিয়াপদ, ধাতু-ক্রিয়া, বিশেষ্যের শ্রেণীবিভাগ	25	45 Mins
MONTH 10	বিপরীত শব্দ, প্রত্যয় + পদ পরিবর্তন, বর্ণ বিশ্লেষণ + অশুদ্ধি সংশোধন, শব্দ গঠন + সর্বনাম, অব্যয়, ক্রিয়াপদ, ধাতু-ক্রিয়া, বিশেষ্যের শ্রেণীবিভাগ	35	60 Mins
MONTH 11	M1 TO M10 (PART 1)	45	75 Mins
MONTH 12	M1 TO M10 (PART 2)	45	75 mins

SUBJECT	ENGLISH	MARKS	TIME
MONTH 1	Spelling, Comprehension, Adjective/Adverb/Preposition/Conjunction, Idioms and Phrases, Vocabulary/Word Usage, Sentence Reordering, Punctuation	25	30 Mins
MONTH 2	Synonyms and Antonyms, One Word Substitution, Question Tags, Verbs, Comprehension, Appropriate Prepositions, Spelling	25	30 Mins
MONTH 3	Correction, Homophones / Word Usage, Sentence Sequencing, Comprehension, Phrase & Clause	25	30 Mins
MONTH 4	Jumbled Sentence, Correction, Phrase, Comprehension, Voice and Narration	25	30 Mins
MONTH 5	Pronouns & Adjectives + Prepositions + Homophones & Spelling + Voice + Narration + Adverbs + Non-finite Verbs + Sentence Sequencing + Synonyms & Antonyms + One Word Substitution	50	60 Mins
MONTH 6	Narration – Spelling – Synonym and Antonym – Sentence Completion – Comprehension	25	45 Mins
MONTH 7	Words Often Confused – Verb – Foreign Words – Correction – Jumbled Sentence – Comprehension	25	45 mins
MONTH 8	Idioms and Phrases – Phrasal Verb – Correction – Synonym and Antonym – Comprehension	25	45 Mins
MONTH 9	Figures of Speech – Similes – Article and Preposition – Homophones – Homonyms – Antonyms and Synonyms – Comprehension	25	45 Mins
MONTH 10	Narration – Spelling – Synonym and Antonym – Sentence Completion + Words Often Confused – Verb – Foreign Words – Correction – Jumbled Sentence + Idioms and Phrases – Phrasal Verb – Correction – Synonym and Antonym + Figures of Speech – Similes – Article and Preposition – Homophones – Homonyms – Antonyms and Synonyms – Comprehension	35	60 Mins
MONTH 11	M1 TO M10 (PART 1)	45	75 Mins
MONTH 12	M1 TO M10 (PART 2)	45	75 mins

SUBJECT	HISTORY	MARKS	TIME
MONTH 1	A Period of Transition	25	30 Mins
MONTH 2	The Age of Revolutions	25	30 Mins
MONTH 3	India in the 18th Century	25	30 Mins
MONTH 4	Traders to Rulers	25	30 Mins
MONTH 5	A Period of Transition + The Growth of Nationalism + India in the 18th Century + Traders to Rulers	50	60 Mins
MONTH 6	British Policies and Impacts	25	45 Mins
MONTH 7	The Great Uprising of 1857	25	45 mins
MONTH 8	Socio-Religious Reforms	25	45 Mins
MONTH 9	India's Struggle for Freedom	25	45 Mins
MONTH 10	British Policies and Impacts + The Great Uprising of 1857 + Socio-Religious Reforms + India's Struggle for Freedom	35	60 Mins
MONTH 11	M1 TO M10 (PART 1)	45	75 Mins
MONTH 12	M1 TO M10 (PART 2)	45	75 mins

SUBJECT	GEOGRAPHY	MARKS	TIME
MONTH 1	Representation of Geographical Features	25	30 Mins
MONTH 2	Hills, Plateaus, Ridges, Settlement Patterns	25	30 Mins
MONTH 3	Topographical Maps	25	30 Mins
MONTH 4	Population Dynamics / Human Resources	25	30 Mins
MONTH 5	Representation of Geographical Features + Hills, Plateaus, Ridges, Settlement Patterns + Population Dynamics + Migration	50	60 Mins
MONTH 6	Urbanization	25	45 Mins
MONTH 7	Natural and Man-made Disasters	25	45 mins
MONTH 8	Asia	25	45 Mins
MONTH 9	India	25	45 Mins
MONTH 10	Urbanization + Natural and Man-made Disasters + Asia + India	35	60 Mins
MONTH 11	M1 TO M10 (PART 1)	45	75 Mins
MONTH 12	M1 TO M10 (PART 2)	45	75 mins

SUBJECT	GK - GI	MARKS	TIME
MONTH 1	Indian History & National Movement, Indian Polity & State Formation, Indian & World Geography (Superlatives), Art, Culture, Literature, & Religion, Environmental Science & Health Science, General Awareness (Sports & Global Awards), Mathematical Number Series	25	30 Mins
MONTH 2	Civics & Post-Independence Indian Politics, World Heritage, Art & Historical Landmarks, Atmospheric Science & Earth Layers, Basic Mathematics & General Awareness Concepts, Alphanumeric & Progressive Pattern Logic	25	30 Mins
MONTH 3	Invertebrate Zoology & Animal Adaptations, Properties of Matter & Energy, Body Systems & Organ Functions, Cultural Studies, Famous Discoveries & History	25	30 Mins
MONTH 4	International Airports & Airlines, Air Pollution & Acid Rain, Metamorphosis & Life Cycles, Heat, Light & Sound, Landmark History & Science Discoveries, Alphanumeric & Sequential Reasoning	25	30 Mins
MONTH 5	Physical Geography – Volcanoes, Earthquakes, Plateaus + Verbal – Statement & Conclusion, Medium Analogies + World Leaders & Orgs – UN, WHO, UNESCO + Numerical – Calendar & Clock, Ratios, Ages	50	60 Mins
MONTH 6	Indian Polity (Intro) – President, PM, Parliament	25	45 Mins
MONTH 7	Non-Verbal – Pattern Completion, Counting Figures	25	45 mins
MONTH 8	Literature & Arts – Authors, Classic Books, Paintings	25	45 Mins
MONTH 9	Analytical Reasoning – Alpha-Numeric Mixed Codes, Applied Venn Problems	25	45 Mins
MONTH 10	Indian Polity (Intro) – President, PM, Parliament + Non-Verbal – Pattern Completion, Counting Figures + Literature & Arts – Authors, Classic Books, Paintings + Analytical Reasoning – Alpha-Numeric Mixed Codes, Applied Venn Problems	35	60 Mins
MONTH 11	M1 TO M10 (PART 1)	45	75 Mins
MONTH 12	M1 TO M10 (PART 2)	45	75 mins

SUBJECT	COMPUTER	MARKS	TIME
MONTH 1	<u>Operating System</u> - Types of software (System, Application, Utility), Booting, Parts of OS (Kernel and Shell), Functions of OS, Types of OS, CUI, GUI, Shut down process <u>MS Excel</u> - Creating, opening, saving, closing workbook; Components of Window; Data types; Working with rows, columns, cells, sheets; AutoFill; Font, Alignment, Number group; Find and Replace, Formula and Functions, AutoSum, Errors <u>MS PowerPoint</u> - Components of window, Creating new presentation, Views, Layouts, Slide Master, Home tab, Pictures, WordArt, SmartArt, Shapes, Slide Background, Concepts of Animation, Transition & Slide show	25	30 Mins
MONTH 2	<u>MS Access</u> - Database, RDBMS, Structure of DBMS, create database, Views of table, Data types, Table creation, modify table, Sort and filter, Query, Forms, Report <u>MS Excel</u> - Formatting data, Cell References, Functions (SUM, AVERAGE, MAX, MIN, COUNT, ROUND, ABS, POWER, SQRT, IF, LEFT, RIGHT, MID etc), Charts, Page break <u>MS PowerPoint</u> - Hyperlinks, Text Box, Symbol, SmartArt, Photo Album, Action Button, Templates, Themes, Page Setup, Audio and Video, Transition and Animation, Slide Show, Rehearse Timing, Custom Slide Show, Slide Master, Fit to Window, Tables	25	30 Mins
MONTH 3	<u>Adobe Photoshop CC</u> - Features, Tools Inserting text, Layers, Image menu <u>Number System</u> - Different number systems, Conversions, Binary Addition and Subtraction <u>Program Coding (C, C++, Java, Python)</u> - Basic concepts of Identifiers, Literals, Data types, Operators, print, input, conditional statements	25	30 Mins
MONTH 4	<u>Computer Safety and Security</u> - Different types of virus, Cyber security and Ethical practices <u>Network</u> - Advantages, Components, Terminologies, Devices, Transmission media, Types, Topology, Architecture, Protocols <u>App Development</u> - Android & iOS, Types of Mobile App, Categories of apps, Downloading & Installing App, Developing an App <u>Adobe Photoshop CC</u> <u>Number System</u> <u>Program Coding (C, C++, Java, Python)</u>	25	30 Mins
MONTH 5	Operating System, Excel, PowerPoint, Access, Adobe Photoshop CC, Number System, Program Coding, Computer Safety and Security, Network, App Development	50	60 Mins
MONTH 6	<u>Cloud Computing</u> - Characteristics, Advantages and disadvantages, Storing and sharing data, Internet banking, E-shopping, Internet surfing, Multimedia / Real time communication, Skype / blog <u>Latest Technological Development</u> - Artificial intelligence, Augmented reality and virtual Reality, 3D printing, Block chain Internet of things, RPA (Robotic Process Automation) <u>Robotics</u> - Introduction; Composition, Characteristics, Types and Use of Robots; Careers in Robotics <u>Data Science</u> - Types and Sources of Data, Need of Data Science, Applications, Data Visualization, Careers in Data Science	25	45 Mins
MONTH 7	<u>HTML</u> - Features, Editors, Concept of tags, elements, attributes; HTML Structure & Basic / Formatting Tags, Lists, Images, Tables, Links, Forms, Multimedia <u>Basics of CSS</u> - inline, internal, external, CSS font properties, list properties	25	45 mins
MONTH 8	<u>Algorithm and Flowchart</u> - Features, Advantages, Limitations, <u>C++</u> - Character sets, Tokens, Identifiers, Variables, Literals, Input and Print statements, Data types, Operators, Conditional statements, Loops	25	45 Mins
MONTH 9	<u>Java</u> - Features, Class and Object, Interface of BlueJ, Basic principles of OOP, Structure of java program, Tokens, Operators, Errors, Input using Scanner class and Method parameter, Math functions, Conditional statements <u>Python</u> - conditional statements, range() function, looping statements, break, continue, math and random module	25	45 Mins
MONTH 10	Cloud Computing, Latest Technological Development, Robotics, Data Science, HTML, Basics of CSS, Algorithm and Flowchart, C++, Java, Python	35	60 Mins
MONTH 11	M1 TO M10 (Part 1)	45	75 Mins
MONTH 12	M1 TO M10 (Part 2)	45	75 mins