THE GENIUS SCIENCE ACADEMY, LAHORE

9TH CLASS (GRADE-9) OFFICIAL PECTAA SMART SYLLABUS & ALP (2026-27 / BISE 2027)

Official Notification No: PECTAA/C&C Unit/2026/1238 (Dated: 06.11.2026) | Accelerated Learning Program

Official Government Notification & Examination Directive — PECTAA STATUTORY ORDER

In pursuance of Section 9(1)(b) of the PECTAA Act 2025 and approval of the Academics Committee in its 13th meeting, the Smart Syllabus (Accelerated Learning Programme – ALP) for Academic Session 2026-27 and BISE Annual Examination 2027 for Grade-9 is hereby officially promulgated. All paper setters and examiners across Punjab are strictly bound by this notification.

1. MATHEMATICS GRADE-9 (UNITS 1 TO 13 • UNIT 8 EXCLUDED • 75 MARKS)

Exact Deleted Sections & Exercises per PECTAA Notification 1238 — MATHS 9 ALP

Unit No. & Title	Status	Deleted / Excluded Topics & Exercises	Retained Core Content
Unit 1: Real & Complex Numbers	RETAINED	1.3 Applications (Examples 10–14) & **Exercise 1.3 complete deleted**	Ex 1.1 & 1.2: Radicals, laws of exponents, scientific notation.
Unit 2: Logarithms	RETAINED	2.4 Laws of Logarithm (Examples 12–15) & **Exercise 2.4 complete deleted**	Ex 2.1 to 2.3: Scientific notation, logarithm concepts, tables.
Unit 3: Sets & Functions	RETAINED	3.3 Binary Relations (3.3.1–3.3.4) & **Exercise 3.3 complete deleted**	Ex 3.1 & 3.2: Operations on sets, Venn diagrams, Cartesian products.
Unit 4: Factorization & Manipulation	RETAINED	4.4 Square Root of Algebraic Expression & **Exercise 4.4 complete deleted**	Ex 4.1 to 4.3: Formulas, factor theorem, remainder theorem, HCF & LCM.
Unit 5: Linear Eq. & Inequalities	RETAINED	**Exercise 5.2 complete deleted**; 5.3 Examples 6 & 7 deleted	Ex 5.1 & Ex 5.3 (retained): Linear equations, absolute values.
Unit 6: Trigonometry	RETAINED	**Exercise 6.6 complete deleted**	Ex 6.1 to 6.5: Radian measure, trigonometric ratios, fundamental identities.
Unit 7: Coordinate Geometry	RETAINED	**Exercise 7.3 complete deleted**	Ex 7.1 & 7.2: Distance formula, midpoint formula, collinear points.
Unit 8: Logic	EXCLUDED	**Unit 8 is entirely absent** from PECTAA reduced syllabus & pairing scheme	**Zero questions** from Unit 8 in board examination.
Unit 9: Similar Figures	RETAINED	**Exercise 9.4 complete deleted**	Ex 9.1 to 9.3: Similar triangles, ratios, proportions, scale factors.
Unit 10: Graphs of Functions	RETAINED	**Exercise 10.2 complete deleted**	Ex 10.1: Linear function graphs, Cartesian plotting, intercepts.
Unit 11: Loci & Construction	RETAINED	**Exercise 11.2 complete deleted**	Ex 11.1: Triangle construction, bisectors, circumscribed circles.
Unit 12: Information Handling	RETAINED	**Exercise 12.2: Q11(ii), Q13–20 deleted**	Ex 12.1 & Ex 12.2 (retained questions): Mean, median, mode, variance.
Unit 13: Probability	RETAINED	**Exercise 13.2: Q5–8 deleted**	Ex 13.1 & Ex 13.2 (retained questions): Sample space, events, probability.

Official Board Pairing Scheme & Long Question Structure (BISE 2027) — PAIRING SCHEME

Question No.	Chapter Combinations & Scope	Exam Instructions & Marks
Q1: MCQs (15 Marks)	15 MCQs from Units 1 to 7, 9 to 13 (Unit 8 excluded)	15 Marks (20 Minutes allocation)
Q2: Short Qs (12 Marks)	Attempt 6 out of 9 from Units 1, 2, 3	6 × 2 = 12 Marks
Q3: Short Qs (12 Marks)	Attempt 6 out of 9 from Units 4, 5, 6	6 × 2 = 12 Marks
Q4: Short Qs (12 Marks)	Attempt 6 out of 9 from Units 7, 9, 10, 11, 12, 13	6 × 2 = 12 Marks
Q5 to Q7: Long Qs (16 Marks)	Attempt any 2 out of 3: Q5 (Ch 1+2), Q6 (Ch 3+4), Q7 (Ch 5+6)	2 × 8 = 16 Marks (4+4 per question)
Q8 & Q9: Alternatives (8 Marks)	**Attempt ONE question only:** • Q8: Part (a) Ch 7 or 10 + Part (b) Ch 9 • Q9: Part (a) Ch 12 + Part (b) Ch 11 or 13	**8 Marks.** Note: Q8 and Q9 are alternatives; **no compulsory theorem question** in Grade-9!

2. PHYSICS GRADE-9 (9 CHAPTERS RETAINED • 60 MARKS)

Official Chapter Titles & Exact Deleted Subtopics per PECTAA 1238 — PHYSICS 9 ALP

Chapter No. & Title	Status	Deleted Topics & Sections (Official PECTAA ALP)	Retained Core Focus
Ch 1: Physical Quantities & Measurement	RETAINED	**1.6 Mass measuring instruments**, 1.7, 1.8, 1.10, 1.12	Units, Vernier Caliper, Screw Gauge, Significant figures.
Ch 2: Kinematics	RETAINED	**2.3, 2.8 Gradient of distance-time graph**, 2.10	Speed, velocity, acceleration, 3 equations of motion.
Ch 3: Dynamics	RETAINED	**3.2, 3.3, 3.5, 3.7 Mechanical & electronic balances**	Newton's laws, momentum, friction, centripetal force.
Ch 4: Turning Effect of Forces	RETAINED	**4.7 Centre of gravity & centre of mass**, 4.11, 4.12	Torque, couple, principle of moments, equilibrium.
Ch 5: Work, Energy & Power	RETAINED	**5.4, 5.6**	Work, kinetic/potential energy, power, efficiency.
Ch 6: Mechanical Properties of Matter	RETAINED	**6.7, 6.8**	Density, pressure, Archimedes principle, Hooke's law.
Ch 7: Thermal Properties of Matter	RETAINED	**7.1, 7.4, 7.5**	Temperature, heat capacity, latent heat, evaporation.
Ch 8: Magnetism	RETAINED	**8.8, 8.10, 8.11**	Magnetic fields, poles, electromagnets, magnetic force.
Ch 9: Nature of Science	RETAINED	**9.4, 9.6**	Scientific inquiry, scientific method, limitations of science.

3. CHEMISTRY GRADE-9 (11 CHAPTERS RETAINED • CH 12 DELETED • 60 MARKS)

Official Chapter Titles & Deleted Content per PECTAA 1238 — CHEMISTRY 9 ALP

Chapter No. & Title	Status	Deleted Topics & Sections (Official PECTAA ALP)	Retained Core Focus
Ch 1: States of Matter & Phase Changes	RETAINED	**1.2, 1.4, 1.8**	Kinetic molecular theory, heating/cooling curves, phase changes.
Ch 2: Atomic Structure & Isotopes	RETAINED	**2.3**	Rutherford & Bohr models, electronic configuration, isotopes.
Ch 3: Chemical Bonding	RETAINED	**3.6, 3.8**	Octet rule, ionic, covalent, coordinate, metallic, intermolecular.
Ch 4: Stoichiometry	RETAINED	All core sections retained	Mole concept, molar mass, Avogadro's number, balanced equations.
Ch 5: Energetics	RETAINED	All core sections retained	Exo/endothermic reactions, enthalpy changes, calorimetry.
Ch 6: Equilibria & Reversible Reactions	RETAINED	**6.3**	Reversible reactions, dynamic equilibrium, Le Chatelier principle.
Ch 7: Acid-Base Chemistry	RETAINED	**7.5**	Arrhenius, Bronsted-Lowry, Lewis theories, pH scale, salts.
Ch 8: Periodic Table & Periodicity	RETAINED	**8.5**	Periods, groups, periodic trends (atomic radius, IE, EA, EN).
Ch 9: Group Properties & Elements	RETAINED	**9.5**	Alkali metals, alkaline earth metals, halogens, noble gases.
Ch 10: Environmental Chemistry	RETAINED	**10.4, 10.5**	Atmospheric layers, greenhouse effect, acid rain, ozone depletion.
Ch 11: Hydrocarbons	RETAINED	**11.4**	Alkanes, alkenes, alkynes, combustion, substitution, addition.
Ch 12: Empirical Data Collection & Analysis	DELETED	**Chapter 12 is DELETED IN FULL** from the syllabus	**100% Excluded** from board examinations.

Regulatory Clarification: The official PECTAA 9th Chemistry curriculum comprises exactly 12 chapters (Ch 12 deleted in full; 11 retained). No "Chapter 13" exists in the textbook.

4. BIOLOGY GRADE-9 (10 CHAPTERS RETAINED • CH 11 DELETED • 60 MARKS)

Official Chapter Titles & Deleted Content per PECTAA 1238 — BIOLOGY 9 ALP

Chapter No. & Title	Status	Deleted Topics & Sections (Official PECTAA ALP)	Retained Core Focus
Ch 1: Science of Biology	RETAINED	1.2, 1.3, 1.5 & 1.8 (Malaria case study deleted)	Branches of biology, scientific method, biological levels.
Ch 2: Biodiversity	RETAINED	All core sections retained	Classification, five kingdoms, binomial nomenclature, conservation.
Ch 3: Cell Biology	RETAINED	All core sections retained	Microscopy, organelle structure & function, cellular processes.
Ch 4: Cell Cycle	RETAINED	All core sections retained	Mitosis stages, meiosis stages, significance, necrosis/apoptosis.
Ch 5: Tissues, Organs & Organ Systems	RETAINED	All core sections retained	Plant tissues (xylem, phloem), animal epithelial & connective tissues.
Ch 6: Biomolecules	RETAINED	All core sections retained	Carbohydrates, lipids, proteins, nucleic acids.
Ch 7: Enzymes	RETAINED	All core sections retained	Characteristics, mechanism of action, factors affecting rate.
Ch 8: Bioenergetics	RETAINED	All core sections retained	Photosynthesis, light/dark reactions, cellular respiration, ATP.
Ch 9: Plant Physiology	RETAINED	All core sections retained	Transport in plants, water potential, transpiration, translocation.
Ch 10: Reproduction in Plants	RETAINED	All core sections retained	Asexual/sexual reproduction, flower structure, pollination, seeds.
Ch 11: Biostatistics	DELETED	**Biostatistics (pp 167–175) is DELETED IN FULL**; glossary deleted	**100% Excluded** from board examination.

5. ENGLISH COMPULSORY GRADE-9 (11 UNITS RETAINED • 3 UNITS EXCLUDED • 75 MARKS)

Retained vs Excluded Units per Official PECTAA Notification 1238 — ENGLISH 9 ALP

Unit No. & Official Title	Status	PECTAA Specification & Page Range	Board Exam Scope
Unit 1: The Saviour of Mankind	RETAINED	Complete reading, vocabulary, comprehension, grammar	Short Qs, Comprehension, Vocab, Grammar
Unit 2: Patriotism	RETAINED	Complete text, national spirit theme, active voice	Short Qs, Letters, Grammar drills
Unit 3: Media and Its Impact	RETAINED	Role of media, communication vocabulary, pronouns	Short Qs, Dialogues, Translation
Unit 4: Hazrat Asma (RA)	RETAINED	Courage, integrity, historical narrative, punctuation	Short Qs, Summary, Character sketch
Unit 5: Women Empowerment through Entrepreneurship	EXCLUDED	**Unit 5 excluded in full (pp 58–71)** per PECTAA notification	**Zero questions** in board exams
Unit 6: The Quaid's Vision and Pakistan	RETAINED	Quaid speeches, nation building, figures of speech	Short Qs, Passive voice, Composition
Unit 7: Sultan Ahmad Mosque	RETAINED	Architecture, descriptive vocabulary, adjectives	Short Qs, Descriptive paragraphs
Unit 8: The Impact of Globalisation on Culture and Economy	EXCLUDED	**Unit 8 excluded in full (pp 93–105)** per PECTAA notification	**Zero questions** in board exams
Unit 9: All is Not Lost	RETAINED	Nursing profession, perseverance, compound sentences	Short Qs, Sentence structure transformation
Unit 10: Snow Leopard and Markhor	EXCLUDED	**Unit 10 excluded in full (pp 120–131)** per PECTAA notification	**Zero questions** in board exams
Unit 11: Noise in the Environment	RETAINED	Environmental pollution, remedial measures, adverbs	Short Qs, Essays/Paragraphs, Grammar
Units 12, 13, 14: Three Days to See & Reviews	RETAINED	Helen Keller essay, review exercises, general grammar	Short Qs, Translation, Comprehension

6. URDU COMPULSORY GRADE-9 (15 RETAINED LESSONS • 4 EXCLUDED • 75 MARKS)

Excluded Lessons vs Retained Curriculum per PECTAA Notification 1238

URDU 9 ALP

PECTAA Notification 1238 officially deletes **exactly 4 items** (3 prose lessons + 1 ghazal). Exactly **15 lessons remain** for board examination preparation:

Category & Lesson Title	Status	PECTAA Directive	Board Exam Question Mapping
1. Ibtidai Hisab (Nasr)	EXCLUDED	Deleted in full from board syllabus	No khulasa, No siyaq-o-sabaq
2. Bheria (Nasr)	EXCLUDED	Deleted in full from board syllabus	No khulasa, No sawal-jawab
3. Cricket aur Mushaira (Nasr)	EXCLUDED	Deleted in full from board syllabus	No khulasa, No paragraph tashreeh
4. Khawaja Haider Ali Aatish Ghazal: "Sun to sahi jahan mein hai tera fasana kya"	EXCLUDED	Deleted in full from board syllabus	No ash'ar tashreeh
15 Retained Lessons: Hijrat-e-Nabvi, Akhlaq-e-Hasna, Apni Madad Aap, Mirza Zahirdaar Baig, Naam Deo Maali, Katba, Javed ke Naam, Payam-e-Latif, etc.	RETAINED	All 15 lessons fully active for board testing (7 Nasr, 4 Nazm, 4 Ghazal)	Q2 (Ash'ar Tashreeh), Q3 (Siyaq-o-Sabaq), Q4 (Khulasa), Q5 (Mukalma/Roodad)

7. ADDITIONAL SUBJECTS SCOPE (ISLAMIAT, TARJUMA-TUL-QURAN, COMPUTER SCIENCE)

Curriculum Authority & Examination Specifications

STANDARD PCTB SYLLABI

Statutory Note on Notification Coverage: PECTAA Notification No. 1238 covers the six core general subjects: Physics, Chemistry, Biology, Mathematics, English, and Urdu. The remaining academic subjects follow the approved Punjab Curriculum and Textbook Board (PCTB) standard syllabi and BISE Lahore model papers:

Subject	Governing Standard	Curriculum & Paper Specifications	Total Marks & Timing
Islamiat Compulsory	PCTB Standard Curriculum	7 Babs Complete (Quran Majeed, Imaniyat, Ibadat, Seerat-un-Nabi SAW, Akhlaq-o-Adaab, Shakhsiyaat, Islami Taleemat); 20 Retained Ahadith Mubarika.	**100 Marks** (3 Hours BISE Official Pattern)
Tarjuma-tul-Quran Majeed	Single National Curriculum / PCTB	18 Selected Surahs: Surah Maryam, Taha, Al-Anbiya, Al-Hajj, Al-Furqan, Ash-Shu'ara, An-Naml, Al-Qasas, Al-Ankabut, Ar-Room, Luqman, As-Sajdah, Saba, Fatir, Ya-Sin, As-Saffat, Sad, Al-Ahqaf.	**50 Marks** (2 Hours Board Pattern)
Computer Science 9th	PCTB Standard Textbook	9 Chapters: Intro to Computers, Computational Systems, Office Automation, Data Representation, Networks, Cyber Security, Web Design, Algorithms, Python Programming.	**50 Marks Theory + Practical** (2 Hours Pattern)

Institutional Certification & Compliance Statement

GSA CERTIFICATION

The Genius Science Academy (GSA) hereby certifies that its Class 9th Revision & Test (R&T) Master Schedule, Classroom Lecture Modules, and Examination Blueprints are **100% compliant with PECTAA Notification No. PECTAA/C&C Unit/2026/1238** for all six notified subjects. All deleted exercises, sections, and lessons have been strictly removed from test topics.