**ENGLISH**

**English Grade 9 Contents:**

* Hazrat Muhammad: A Mercy For All Creation.
* The Art Of Muslim Women Entrepreneurship.
* Modern World And Age Of Digital Globalization.
* Nothing Is Impossible-The Construction Of Spectacular Brooklyn Bridge.
* 5 Of Jeff’s Benzo’s Best Lessons For Success From His 27 Year As Amazon Ceo
* Say No To Drugs.
* Mowing By Robert Frost.
* The Eagle By Alfred Tennyson (Poem).
* Travel And Tourism.
* Two Mothers Remembered By Joan Snow Duncanson.
* The Metamorphosis.
* Healthy Lifestyle.

**English Grade 11 Contents:**

* Family Issues In Pakistan.
* Shooting Stars.
* The Wind (Poem).
* Butterflies ( Short Stories).
* Clean Water And Sanitation
* The Darkling Thrush Poem.
* World Heritage Sites In Pakistan.
* Social Media: A Blessing Or A Curse?
* Sunshine After Rain (Poem).
* The Small Women ( Biography).
* The Three Questions.
* Break Break Break( Poem).
* Blow, Blow ,Thou (Poem).
* Choice Of A Profession.
* The Ninny
* Fourteen ( One- Act Play).
* The Last Leaf ( Short Story).
* The Necklace ( Short Story).

**PHYSICS**

**Physics Grade 9 Contents:**

* Physical Quantities And Measurements.
* Kinematics.
* Dynamics-I.
* Dynamics-Ii.
* Pressure And Deformation In Solids.
* Work And Energy.
* Density And Temperature.
* Magnetism.
* Nature Of Science And Physics.

**Physics Grade 11 Contents:**

* Physical Quantities Andmeasurement.
* Vectors.
* Translatory Motion.
* Rotational And Circular Motion.
* Work And Energy.
* Fluid Mechanics.
* Deformation Of Solids.
* Heat And Thermodynamics.
* Waves.
* Electrostatics.
* Electricity.
* Electromagnetism.
* Relativity.
* Particle Physics.

**CHEMISTRY**

**Chemistry Grade 9 Contents:**

* Nature and science in chemistry.
* Matter.
* Atomic structure.
* Periodic table and periodicity of properties.
* Chemical bonding.
* Stoichiometery.
* Electrochemistry.
* Energetics.
* Chemical equilibrium.
* Acids , Bases and salts.
* Environmental chemistry : Air.
* Environmental chemistry : Water.
* Organic chemistry.
* Hydrocarbons.
* Biochemistry.
* Empirical data collection and analysis.
* Separation techniques.
* Qualitative analysis.

**Chemistry Grade 11 Contents:**

* Nature and science in chemistry.
* Atomic structure.
* Chemical bonding.
* Stoichiometery.
* States and phases of matter.
* Energetics.
* Chemical kinetics.
* Chemical equilibrium.
* Acids- Bases chemistry.
* Periodic Table.
* Nitrogen and sulphur .
* Environmental chemistry-Air.
* Environmental chemistry : Water.
* Organic chemistry.
* Hydrocarbons.
* Halogenoalkanes.
* Alcohol.
* Carbonyl compounds.
* Nitrogen compounds- Amines.
* Organic synthesis.
* Energy

**BIOLOGY**

**Biology Grade 9 Contents:**

* The science of biology.
* Biodiversity.
* The cell.
* Cell cycle.
* Tissues, organs and organ systems.
* Molecular biology.
* Metabolism.
* Plant physiology.
* Plant reproduction.
* Evolution.

**Biology Grade 11 Contents:**

* Cell and sub-cellular organelles.
* Biological molecules.
* Enzymes.
* Bioenergetics.
* A cellular life.
* Prokaryotes.
* Protists and fungi.
* Kingdom plantae.
* Diversity in plant function.
* Animalia.
* Reproduction.
* Inheritance.
* Chromosomes and DNA.
* Evolution.
* Ecology.

**MATHMEMATICS**

**Mathematics Grade 9 Contents:**

* Real Numbers.
* Logarithms.
* Sets And Relations.
* Factorization And Algebraic Manipulation.
* Linear Equations And Inequalities.
* Coordinate Geometry.
* Geometry Of Straight Lines.
* Geometry And Polygons.
* Practical Geometry.
* Trigonometry And Bearing.
* Basic Statistics.

**Mathematics Grade 11 Contents:**

* Complex Numbers.
* Matrices And Determinants.
* Vectors.
* Sequences And Series.
* Polynomials.
* Permutations,And Combinations.
* Mathematical Induction And Binomial Theorem.
* Fundamentals Of Trigonometry.
* Trigonometric Functions.

**COMPUTER SCIENCE**

**Computer Science Grade 9 Contents:**

* Computer Systems.
* Computational Thinking And Algorithms.
* Programming Fundamentals.
* Data And Analysis.
* Application Of Computer Science.
* Impacts Of Computing.
* Entrepreneurship.

**Computer Science Grade 11 Contents:**

* Computer Systems.
* Computational Thinking And Algorithms.
* Programming Fundamentals.
* Data And Analysis.
* Application Of Computer Science.
* Impacts Of Computing.
* Digital Literacy.
* Entrepreneurship In Digital Age.