

Comparing Science Curricula Syria

Science & Technology Curriculum: Syria

Grade	Science Strands				
	Life Systems	Matter and Energy	Structures and Mechanisms	Earth and Space Systems	STEM Skills and Connections/ICT (Syria)
Grade 6	Relationships between Living Things; Food Chain; Ecosystems; Human Excretory System; Vertebrate Excretory Systems; Urinary System Organs and Diseases; Skin (Protective Barrier); Sexual and Asexual Reproduction in Plants; Agriculture; Reproduction in Humans; Pregnancy and Birth; Health and Family Planning; Reproduction in Vertebrates; Carbon and Nitrogen Cycles	Molecules; Law of Conservation of Matter; Astonishing Phenomena; ; In motion and Stationary	Forces in Nature; Inclined Plane; Lever; Pulleys; Wheel and Axle; Machines	Earthquakes; Tsunami; Space; Earth through Time	Operating Systems: Windows; Software and Applications (presentation software and emails); Programming (Scratch)
Grade 7	Biology The Cell; Origin and Development of Living things; Life of Plants; Health	Chemistry Matter and Heat; Matter and Energy	Physics Motion and Dynamics; Pressure and Archimedes' Principle	Earth Science Environment (The Basic Organization of Living Things; Ecosystem; Environmental Balance)	Computer Structure: Physical components (e.g., Motherboard; expansion cards); Operating Systems (Linux, Ubuntu), File Types; Application Software (e.g., Spreadsheet, Flash); Application software (e.g., Spreadsheet, Flash), Malware Software; Algorithms; Information Security (Antivirus Programs); Website Components, Advanced Searches, Social Media; Numeral systems (Converting between Systems); Examples of Computer Uses in our Lives, AI, PLC2, Robots
Grade 8	Biology Plants; Animals; Origin and Development of Life (Origin and Development of Life on Earth; Cell Theory; Classes of Nutrients); Adaptation and Behaviour	Chemistry Structural Chemistry	Physics Movement & Forces Unit; Electricity; Light	Earth Science Origin and Development of Life (Earth through time; Atmosphere)	Computer Structure; Operating Systems; Adobe Photoshop, Video Creation and Editing Application Software; Programming language (C++); Action Script, Building Information Modeling; Information Security; Networks and the Internet; Numeral Systems; Smart Home, Smart City, Electronic Trades
Grade 9 De-streamed	Biology Support and Coordination (Musculoskeletal System; Nervous System; Endocrine System; Sense Organs; Health of Support and Coordination Systems); Human Nutrition (Organs and Organ Systems; Health); Heredity and Reproduction; Plant Reproduction	Chemistry Inorganic Chemistry; Organic Chemistry; Nuclear Chemistry	Physics Electricity and Magnetism; Mechanics and Energy; Waves and Vibrations	Earth Science Environment (Pollution)	Physical Components: Power Supply Unit and Mobile Phones; Image Editing and Processing: Bitmaps and X-ray Images, Layers, Animation; Open-Source Software: Libre Office Calc; some functions of the program; Tables, Filters, and Data; Programming (C++); Data Entry; Data Output; Arithmetic Operations; Control Structures (selection - loops) and Boolean Operators; Matrices; Algorithms: Program Development Stages; Variables and Constants; Data Types; Control Structures (test - loops) and Logical Operators; Investing in the Potential of the Network: Advanced Online Search Technologies; Traditional Education and E-learning; Cloud Computing; Binary Numeral System and Arithmetic Operations; Tech Updates: Monitoring, Control and Data Collection Systems; Computer Specialization and Job Opportunities; Nanotechnology