

Science Curriculum Strands Afghanistan

Science & Technology Curriculum Strands

Grade	Curriculum	Science Strands				
		Life Systems	Matter and Energy	Structures and Mechanisms	Earth and Space Systems	STEM Skills and Connections
Grade 6	Afghanistan (2020)	Title of Textbook: Science, Health, and Environment - Contents Include: Systems of the Human Body, Nature and Wildlife, Causes of Infectious Disease, Air/Water/Food Contaminants, Typhoid, Cholera, Tuberculosis, Influenza, How to keep healthy, Substance and drug use and its harmful physical and mental effects, Addiction control and prevention	Types of Energy, Uses of Energy, Changes in Energy, Minerals, Metals, Rocks, Fossils	Force, Types of Force, Friction, Motion, Speed, Types and Parts of Movement	N/A	N/A
Grade 7	Afghanistan (biology 2020, chemistry 2019, physics 2021)	Ecology, Cells, Life Cycle, Cell Structure	Characteristics and types of substances, parts of substances, chemical changes and reactions, important elements of life	Measurement, Force, Work, Energy, Power, Pressure, Characteristics of Light, Reflection and Refraction of Light, Mirrors	N/A	N/A
Grade 8	Afghanistan (biology 2019, chemistry 2020, physics 2021)	Anatomy and functions of viruses, bacteria, algae, fungi, life stages and classification of plants, protists, mosses and ferns, plants reproduction, ecology, ecosystems, levels of ecosystems, animal reproduction, life stages and classification of animals, vertebrates, invertebrates, biodiversity	Atom, electron orbitals, periodic table of elements, chemical reactions, acids, bases, oxides, chemical fertilizers, salts	Temperature, Relationship between work and temperature, magnetism, electricity, power and vectors, machines, how machines function, gravity	N/A	N/A
Grade 9	Afghanistan (biology 2019, chemistry 2021, physics 2021)	Systems of the Human Body, Human Health	Organic chemistry: hydrocarbons, chain reactions, chemical reactions	Movement, vibration, acoustics/sounds, electricity flow, measurement, potential energy, resistance, electromagnetism	N/A	N/A

Note: Dates are reflective of when student textbooks have been published. All teacher handbooks have been published between 2012 to 2019, and student textbooks have been published between 2019 to 2021, before August 2021.

Reference: Afghanistan Ministry of Education. (2023). Retrieved from <https://moe.gov.af/index.php/dr/> کتب-نصاب-تعلیمی/ and <https://moe.gov.af/dr/> کتب-ن-هنمای-معلم