



### Science Curriculum Overview (Punjabi): Pakistan

Grade	Life Systems	Matter and Energy	Structures and Mechanisms	Earth and Space Systems	STEM Skills and Connections
Grade 6	<ul style="list-style-type: none"> <li>- Cellular Organization of Plants and Animals</li> <li>- Sense Organs</li> <li>- Photosynthesis and Respiration in Plants</li> <li>- Environment and Interactions</li> </ul>	<ul style="list-style-type: none"> <li>- Energy and Its Forms</li> <li>- Forces and Machines</li> <li>- Properties of Light</li> <li>- Investigating Sounds</li> </ul>	<ul style="list-style-type: none"> <li>- Atoms, Molecules, Mixtures and Components</li> <li>- Air</li> <li>- Solutions and Suspensions</li> </ul>	<ul style="list-style-type: none"> <li>- Space and Satellites</li> </ul>	n/a
Grade 7	<ul style="list-style-type: none"> <li>- Human Organ Systems</li> <li>- Transport in Humans and Plants</li> <li>- Reproduction in plants</li> <li>- Environment and Feeding Relationship</li> </ul>	<ul style="list-style-type: none"> <li>- Transmission of Heat</li> <li>- Dispersion of Light</li> <li>- Sound Waves</li> <li>- Circuit and Electric Currents</li> </ul>	<ul style="list-style-type: none"> <li>- Water</li> <li>- Structure of an Atom</li> <li>- Physical and Chemical Changes and Processes</li> </ul>	<ul style="list-style-type: none"> <li>- Investigating Space</li> </ul>	n/a
Grade 8	<ul style="list-style-type: none"> <li>- Human Organ Systems</li> <li>- Cell Division and Heredity</li> <li>- Biotechnology</li> <li>- Pollutants and Their Effects on Environment</li> </ul>	<ul style="list-style-type: none"> <li>- Force and Pressure</li> <li>- Measurement of Physical Quantities</li> <li>- Sources and Effects of Heat Energy</li> <li>- Lenses</li> <li>- Electricity</li> </ul>	<ul style="list-style-type: none"> <li>- Chemical Reactions</li> <li>- Acid, Alkalis/Bases and Salts</li> </ul>	<ul style="list-style-type: none"> <li>- Exploring Space</li> </ul>	n/a
Grade 9	<p>[Biology]</p> <ul style="list-style-type: none"> <li>- Introduction to Biology</li> <li>- Solving a Biological Problem</li> <li>- Biodiversity</li> <li>- Cell and Tissues</li> <li>- Cell Cycle</li> <li>- Enzymes</li> <li>- Bioenergetics</li> <li>- Nutrition</li> <li>- Transport</li> </ul>	<p>[Physics]</p> <ul style="list-style-type: none"> <li>- Physical Quantities and Measurement</li> <li>- Kinematics</li> <li>- Dynamics</li> <li>- Turning Effect of Forces</li> <li>- Gravitation</li> <li>- Work and Energy</li> <li>- Properties of Matter</li> <li>- Thermal Properties of Matter</li> <li>- Transfer of Heat</li> </ul>	<p>[Chemistry]</p> <ul style="list-style-type: none"> <li>- Fundamentals of Chemistry</li> <li>- Structure of Atoms</li> <li>- Periodic Table and Periodicity of Properties</li> <li>- Structure of Molecules</li> <li>- Physical States of Matter</li> <li>- Solutions</li> <li>- Electrochemistry</li> <li>- Chemical Reactivity</li> </ul>	<p>[General Science]</p> <ul style="list-style-type: none"> <li>- Introductions of Role of Science</li> <li>- Our Life and Chemistry</li> <li>- Human Health</li> <li>- Diseases-Causes and Prevention</li> <li>- Environment and Natural Resources</li> <li>- Energy</li> <li>- Current Electricity</li> <li>- Basic Electronics</li> <li>- Science and Technology</li> <li>- Space and Nuclear Programme of Pakistan</li> </ul>	n/a