



This document is a draft<sup>i</sup>

آغا خان یونیورسٹی ایگزامینیشن بورڈ  
AGA KHAN UNIVERSITY EXAMINATION BOARD

## Teaching and Learning Resources for Grade IX General Science

### Recommended Key Textbook:

*General Science 9 & 10*. National Book Foundation. Islamabad: Federal Textbook Board.

### Additional Recommended Resource Material

Topic No	Topic/ Sub-Topic/ SLO	Reference Book	Topic in the Reference Book	Reference Website
1.	History and Nature of Science	Punjab Curriculum and Textbook Board, Lahore. <i>General Science 9 &amp; 10</i> .	Unit 1: Introduction and Role of Science	
		Sindh Textbook Board (2017). <i>A Textbook of General Science for Classes IX and X</i> . Jamshoro.	Unit 1: Introduction and Role of Science	
		9 <sup>th</sup> Biology PLD Publishers, Lahore	Unit 2: Solving a Biological Problem	<a href="https://www.khanacademy.org/science/high-school-biology/hs-biology-foundations/hs-biology-and-the-scientific-method/a/the-science-of-biology">https://www.khanacademy.org/science/high-school-biology/hs-biology-foundations/hs-biology-and-the-scientific-method/a/the-science-of-biology</a>

### Additional Recommended Resource Material

Topic No	Topic/ Sub-Topic/ SLO	Reference Book	Topic in the Reference Book	Reference Website
2.	Our Life and Chemistry	Punjab Curriculum and Textbook Board, Lahore <i>General Science 9 &amp; 10.</i>	Unit 2: Our Life and Chemistry	
		Sindh Textbook Board (2017). <i>A Textbook of General Science for Classes IX and X.</i> Jamshoro.	Unit 2: Our Life and Chemistry	
		Punjab Curriculum and Textbook Board, Lahore <i>General Science 9 &amp; 10.</i>	Unit 3: Biochemistry and Biotechnology	
3.	Human Health, Diseases and Preventions	Punjab Curriculum and Textbook Board, Lahore <i>General Science 9 &amp; 10.</i>	Unit 4: Human Health Unit 5: Diseases- Cause and Prevention	<a href="https://www.youtube.com/watch?v=FDy68RJ4dX8">https://www.youtube.com/watch?v=FDy68RJ4dX8</a>
		Sindh Textbook Board (2017). <i>A Textbook of General Science for Classes IX and X.</i> Jamshoro.	Unit 4: Man and Health	
		9 <sup>th</sup> Biology PLD Publishers, Lahore	Unit 8: Nutrition	

### Additional Recommended Resource Material

Topic No	Topic/ Sub-Topic/ SLO	Reference Book	Topic in the Reference Book	Reference Website
4.	Population and Environment	John Palliste. <i>Environmental Management</i>	Unit 4.7: World Population Growth	
		N. Vasudevan. <i>Essentials of Environmental Science.</i>	Unit 12: Human Population growth and environment	
5.	Energy Sources	Punjab Curriculum and Textbook Board, Lahore <i>General Science 9 &amp; 10.</i>	Unit 6: Environment and Natural Resource Unit 7: Energy	
		Sindh Textbook Board (2017). <i>A Textbook of General Science for Classes IX and X.</i> Jamshoro	Unit 7: Energy	
6.	Electricity in Everyday Life	Punjab Curriculum and Textbook Board, Lahore <i>General Science 9 &amp; 10.</i>	Unit 8: Current Electricity	
		Sindh Textbook Board (2017). <i>A Textbook of General Science for Classes IX and X.</i> Jamshoro	Unit 8: Current Electricity	



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## Teaching and Learning Resources for Grade X General Science

### Recommended Key Textbook:

*General Science 9 & 10*. National Book Foundation. Islamabad: Federal Textbook Board, Punjab Curriculum and Text Board, Lahore

### Additional Recommended Resource Material

Topic No	Topic/ Sub-Topic/ SLO	Reference Book	Topic in the Reference Book	Reference Website
7.	Environment, Problems and Management	Punjab Curriculum and Textbook Board, Lahore General Science 9 & 10.	Unit 6: Environmental and Natural Resources	
		Sindh Textbook Board (2017). A Textbook of General Science for Classes IX and X. Jamshoro	Unit 6: Environmental and Natural Resources	
		Environmental Management by John Pallister	Unit 1.7: Causes and Consequences of Land pollution Unit 2.4: Water pollution: Causes , Consequences and improvements Unit 3.2: Atmospheric pollution: Causes, effects and strategies	

### Additional Recommended Resource Material

Topic No	Topic/ Sub-Topic/ SLO	Reference Book	Topic in the Reference Book	Reference Website
8.	Biotechnology	Punjab Curriculum and Textbook Board, Lahore <i>General Science 9 &amp; 10.</i>	Unit 3: Biochemistry and Biotechnology	
		10 <sup>th</sup> Biology PLD Publishers, Lahore	Unit 17: Applications of Biology	
		Sindh Textbook Board (2017). <i>A Textbook of General Science for Classes IX and X.</i> Jamshoro	Unit 3: Biotechnology	
9.	Chemical Reactions and their practical applications	Punjab Textbook Board. <i>Chemistry 9 &amp; 10.</i> Lahore	Unit 2: Chemical Combination and Chemical Equations	
			Unit 9: Acids, Bases and Salts	
			Unit 14: Environmental Chemistry	
		Punjab Curriculum and Textbook Board, Lahore <i>General Science 9 &amp; 10.</i>	Unit 6: Environmental and Natural Resources	
		Karen Arms <i>Environmental Science</i> Holt, Rinehart and Winston	Unit 5 Mineral and Energy Resources	

### Additional Recommended Resource Material

Topic No	Topic/ Sub-Topic/ SLO	Reference Book	Topic in the Reference Book	Reference Website
10.	Water Resources	Punjab Textbook Board. <i>Chemistry 9 &amp; 10</i> . Lahore	Unit 15: Water	
11.	Basic Electronics	Punjab Curriculum and Textbook Board, Lahore <i>General Science 9 &amp; 10</i> .	Unit 9: Basic Electronics	
		Sindh Textbook Board (2017). <i>A Textbook of General Science for Classes IX and X</i> . Jamshoro	Unit 9: Basic Electronics	
12.	Science and Technology	Punjab Curriculum and Textbook Board, Lahore <i>General Science 9 &amp; 10</i> .	Unit 11: Science and Technology	
		Sindh Textbook Board (2017). <i>A Textbook of General Science for Classes IX and X</i> . Jamshoro	Unit 11: Science and Technology	

**Note:** This resource list has been prepared primarily for teachers. While it can be shared with students, students should not be required to buy multiple books. Schools are encouraged to stock these books in the library. Moreover, these are only suggestions which have been compiled for the ease of teachers and students; schools are encouraged to use other resources for teaching and learning as well, as long as they are in line with the student learning outcomes (SLOs) mentioned in AKU-EB syllabi. Unless specified, AKU-EB does not endorse any of these books or websites.

In case any website is not functional for any reason, you may search material via Google or Yahoo search engines. If you have any query, you may contact us at [examination.board@aku.edu](mailto:examination.board@aku.edu)

This resource list is applicable for syllabi which will be assessed in 2021 onwards.

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<sup>i</sup> This resource guide is a draft and the resources are subject to minor revision. Suggestions from AKU-EB affiliated schools regarding the resources are welcome.

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