



آغا خان یونیورسٹی ایگزامینیشن بورڈ  
AGA KHAN UNIVERSITY EXAMINATION BOARD

## Teaching and Learning Resources for Grade IX Environmental Studies

### Recommended Key Textbook:

*Environmental Studies for Grade IX*

Additional Recommended Resource Material				
Topic No	Topic Title	Reference Book	Topic in the Reference Book	Website
1.	Fundamentals of Environmental Studies	<i>Perspective in Environmental Studies</i> by Anubha Kaushik, C. P. Kaushik, New Age International Publishers	Unit 1: Environmental Studies - A multidisciplinary subject	
		<i>Environmental Science</i> by Daniel D. Chiras Jones & Bartlett Learning	Unit 1: The Environment and people	
		<i>Living in the Environment</i> by G. Tyler Miller, Jr. BROOKS/ COLE, Thomson Learning	Unit 2: Environmental History: An overview	

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2.	Our Planet - Earth	<i>Environmental Management</i> by John Pallister Oxford University Press	Unit 1: The Lithosphere Unit 2: The Hydrosphere Unit 3: The Atmosphere Unit 4: Biosphere	<a href="http://www.cotf.edu/etc/ESS/ESSpheres.html">http://www.cotf.edu/etc/ESS/ESSpheres.html</a>
3.	Ecosystem	<i>Environmental Science</i> by Daniel D. Chiras Jones & Bartlett Learning	Unit 2: The Environment of Life on Planet Earth	<a href="https://www.lpi.usra.edu/education/explore/our_place/hab_ref_table.pdf">https://www.lpi.usra.edu/education/explore/our_place/hab_ref_table.pdf</a>
		<i>Environmental Science</i> by Karen Arms  Holt, Rinehart and Winston	Unit 1: Introduction to Environmental Science	<a href="https://spaceplace.nasa.gov/seasons/en/">https://spaceplace.nasa.gov/seasons/en/</a>  <a href="https://byjus.com/physics/difference-between-equinox-and-solstice/">https://byjus.com/physics/difference-between-equinox-and-solstice/</a>
		<i>Perspective in Environmental Studies</i> by Anubha Kaushik, C. P. Kaushik, New Age International Publishers	Unit 3: Ecosystem	<a href="https://byjus.com/biology/ecosystem/">https://byjus.com/biology/ecosystem/</a>  <a href="https://education.nationalgeographic.org/resource/ecosystem">https://education.nationalgeographic.org/resource/ecosystem</a>
3.	Ecosystem	<i>Essentials of Environmental Science</i> by N. Vasudevan NAROSA Publishing House Pvt. Ltd.	Unit 4: Ecosystem	
		<i>Environmental Science Jones &amp; Bartlett Learning</i> by Michael L. McKinney, Robert M. schoch, and Logan Yonavjak	Unit 4: Principles of Ecology	

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		<i>Living in the Environment</i> by G. Tyler Miller, Jr. BROOKS/COLE, Thomson Learning	Unit 4: Ecosystem: Components, Energy Flow, and Matter Cycling	
		<i>Environmental Science: A global Concern</i> by P. Cunningham and Marry Ann Cunningham McGraw Hill	Unit 3: Matter, Energy and Life	
		<i>Essentials of Environmental Science</i> by N. Vasudevan NAROSA Publishing House Pvt. Ltd.	Unit 12: Human Population Growth and Environment	<a href="https://www.science.org.au/curious/earth-environment/population-environment">https://www.science.org.au/curious/earth-environment/population-environment</a>
		<i>Perspective in Environmental Studies</i> by Anubha Kaushik, C. P. Kaushik, New Age International Publishers	Unit 7: Human Population and the Environment	
4.	Population Growth, Development and Environment	<i>Commercial Geography</i> by Fazl-e-Karim Oxford Publisher	Unit 3: Population Growth Distribution and Commercial Activities Unit 22 Population	<a href="http://worldpopulationreview.com/countries/pakistan-population/">http://worldpopulationreview.com/countries/pakistan-population/</a> <a href="http://extwprlegs1.fao.org/docs/pdf/lao151747.pdf">http://extwprlegs1.fao.org/docs/pdf/lao151747.pdf</a>
		<i>Commercial Geography</i> by Yousuf Rahmani. The Earth House	Unit 3: Population quality and Occupational Structure Unit 4 World Population	

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5.	Air, Water and Land Pollution	<i>Environmental Science</i> by Michael L. McKinney, Robert M. schoch, and Logan Yonavjak. Jones & Bartlett Learning	Unit 8: Population: Measuring Growth and its Impact	<a href="http://www.scribd.com/doc/31648203/Pollution-in-Pakistan">http://www.scribd.com/doc/31648203/Pollution-in-Pakistan</a>  <a href="https://www.conserve-energy-future.com">https://www.conserve-energy-future.com</a>
		<i>Perspective in Environmental Studies</i> by Anubha Kaushik, C. P. Kaushik. New Age International Publishers	Unit 5: Environmental Pollution	
		<i>Essentials of Environmental Science</i> by N. Vasudevan NAROSA Publishing House Pvt. Ltd.	Unit 7: Water pollution and treatment Unit 9: Air pollution and control	
		<i>Environmental Science</i> by Karen Arms. Holt, Rinehart and Winston	Unit 4: Water, Air, and Land	
		<i>Environmental Science: A global Concern</i> by P. Cunningham and Marry Ann Cunningham, McGraw Hill.	Unit 16: Air pollution Unit 18: Water pollution	

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6.	Noise and Radiation Pollution	<i>Perspective in Environmental Studies</i> by Anubha Kaushik, C. P. Kaushik, New Age International Publishers.	Unit 5: Environmental Pollution	<a href="https://www.environmentalpollutioncenters.org/noise-pollution/">https://www.environmentalpollutioncenters.org/noise-pollution/</a>
		<i>Essentials of Environmental Science</i> by N. Vasudevan. NAROSA Publishing House Pvt. Ltd.	Unit 10: Noise Pollution	<a href="https://www.conserve-energy-future.com">https://www.conserve-energy-future.com</a>

**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. You are advised to use an ad-blocker while accessing the websites. In case any website is not functional for any reason, you may inform us at [examination.board@aku.edu](mailto:examination.board@aku.edu) for an alternative or search material via any search engine. If you have any query, please contact us via email.



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## Teaching and Learning Resources for Grade X Environmental Studies

**Recommended Key Textbook:**

**Environmental Studies for Grade X:**

Additional Recommended Resource Material				
Topic No	Topic Title	Reference Book	Topic in the Reference Book	Website
7.	Biodiversity	<i>Perspective in Environmental Studies</i> by Anubha Kaushik, C. P. Kaushik, New Age International Publishers.	Unit 4: Biodiversity and its conservation	<a href="http://www.globalissues.org/issue/169/biodiversity">http://www.globalissues.org/issue/169/biodiversity</a>
		<i>Essentials of Environmental Science</i> by N. Vasudevan, NAROSA Publishing House Pvt. Ltd.	Unit 6: Biodiversity and conservation	<a href="https://www.greenfacts.org/en/biodiversity/1-3/1-define-biodiversity.htm">https://www.greenfacts.org/en/biodiversity/1-3/1-define-biodiversity.htm</a>
		<i>Environmental Science: A global Concern</i> by P. Cunningham and Marry Ann Cunningham, McGraw Hill.	Unit 11: Biodiversity: Preserving Species	<a href="https://www.nationalgeographic.org/encyclopedia/endangered-species/">https://www.nationalgeographic.org/encyclopedia/endangered-species/</a> <a href="http://wildlife.com.pk/endangered/">http://wildlife.com.pk/endangered/</a>

Topic No	Topic Title	Reference Book	Topic in the Reference Book	Website
8.	Social Change in Behaviour Patterns in Relation to Environment	<i>Perspective in Environmental Studies</i> by Anubha Kaushik, C. P. Kaushik, New Age International Publishers.	Unit 6: Social Issues and the Environment	<a href="https://www.britannica.com/topic/social-change">https://www.britannica.com/topic/social-change</a>
		<i>Environmental Science</i> by Daniel D. Chiras, Jones & Bartlett Learning.	Unit 5: Social Solutions to Environmental Concern	
9.	Resources Utilization and Its Impact on Environment	<i>Perspective in Environmental Studies</i> by Anubha Kaushik, C. P. Kaushik, New Age International Publishers.	Unit 2: Natural Resources	<a href="https://www.futurelearn.com/info/courses/introduction-to-environmental-science/0/steps/269824">https://www.futurelearn.com/info/courses/introduction-to-environmental-science/0/steps/269824</a>
		<i>Essentials of Environmental Science</i> by N. Vasudevan, NAROSA Publishing House Pvt. Ltd.	Unit 5: Natural Resources	
		<i>The Environment of Pakistan</i> by Huma Naz Sethi, Peak Publishing.	Unit 8: Power Resources Unit 5: Mineral Resources	
		<i>Environmental Science</i> by Daniel D. Chiras, Jones & Bartlett Learning.	Unit 3: Resource use and management	
		<i>Environmental Science</i> by Karen Arms, Holt, Rinehart and Winston.	Unit 5: Mineral and Energy Resources	

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10.	Environment and Quality of Life	<i>Living in the Environment</i> by G. Tyler Miller, Jr. BROOKS/COLE, Thomson Learning.	Unit 26: Economics, Environment, and Sustainability	<a href="https://www.economicshelp.org/blog/2445/economics/quality-of-life-indicators/">https://www.economicshelp.org/blog/2445/economics/quality-of-life-indicators/</a>
		<i>Environmental Science: A global Concern</i> by P. Cunningham and Marry Ann Cunningham. McGraw Hill.	Unit 9: Food and Hunger Unit 10: Farming: Conventional and Sustainable Practices	
11.	Global and Regional Environmental Issues	<i>Perspective in Environmental Studies</i> by Anubha Kaushik, C. P. Kaushik, New Age International Publishers.	Unit 6: Social Issues and the Environment	<a href="https://greentumble.com/causes-and-effects-of-desertification/">https://greentumble.com/causes-and-effects-of-desertification/</a>  <a href="https://www.sciencedaily.com/terms/urbanization.htm">https://www.sciencedaily.com/terms/urbanization.htm</a>  <a href="https://www.epa.gov/wetlands/what-wetland">https://www.epa.gov/wetlands/what-wetland</a>  <a href="https://www.britannica.com/science/wetland">https://www.britannica.com/science/wetland</a>
		<i>Essentials of Environmental Science</i> by N. Vasudevan, NAROSA Publishing House Pvt. Ltd.	Unit 13: Global Issues on Environment	
		<i>Environmental Science: A global Concern</i> by P. Cunningham and Marry Ann Cunningham, McGraw Hill.	Unit 5: Biomes: Global Patterns of Life	



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12.	Environmental Management	N. Vasudevan <i>Essentials of Environmental Science</i> NAROSA Publishing House Pvt. Ltd.	Unit 14: Environmental Management	<a href="https://www.environmentalscienc e.org/environmental-management-history">https://www.environmentalscienc e.org/environmental-management-history</a>
		<i>Perspective in Environmental Studies</i> by Anubha Kaushik, C. P. Kaushik, New Age International Publishers.	Unit 6: Social Issues and the Environment	<a href="http://www.fao.org/docrep/V8350E/v8350e06.htm">www.fao.org/docrep/V8350E/v8350e06.htm</a>

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