



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 Environmental Studies

### Recommended Key Textbook:

Additional Recommended Resource Material				
Topic No	Topic/ Sub-Topic/ SLO	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	

### Additional Recommended Resource Material

Topic No	Topic/ Sub-Topic/ SLO	Reference Book	Topic in the Reference Book	Website
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/ete/ESS/ESSpheres.html">http://www.cotf.edu/ete/ESS/ESSpheres.html</a>
		<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>
3.	Ecosystem	<i>Perspective in Environmental Studies</i> by Anubha Kaushik, C. P. Kaushik, New Age International Publishers	Unit 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	

### Additional Recommended Resource Material

Topic No	Topic/ Sub-Topic/ SLO	Reference Book	Topic in the Reference Book	Website
4.	Population Growth, Development and Environment	<i>Living in the Environment</i> by G. Tyler Miller, Jr. BROOKS/COLE, Thomson Learning	Unit 4: Ecosystem: Components, Energy Flow, and Matter Cycling	<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>  <a href="http://www.pja.gov.pk/system/files/The%20Handbook%20On%20Environmental%20Law%20%28v4%29.pdf">http://www.pja.gov.pk/system/files/The%20Handbook%20On%20Environmental%20Law%20%28v4%29.pdf</a>
		<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	
		<i>Perspective in Environmental Studies</i> by Anubha Kaushik, C. P. Kaushik, New Age International Publishers	Unit 7: Human Population and the Environment	
		<i>Commercial Geography</i> by Fazl-e-Karim Oxford Publisher	Unit 3: Population Growth Distribution and Commercial Activities  Unit 22: Population	
		<i>Commercial Geography</i> by Yousuf Rahmani. The Earth House	Unit 3: Population quality and Occupational Structure  Unit 4: World Population	

### Additional Recommended Resource Material

Topic No	Topic/ Sub-Topic/ SLO	Reference Book	Topic in the Reference Book	Website
		<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	
5.	Air, Water and Land Pollution	<i>Perspective in Environmental Studies</i> by Anubha Kaushik, C. P. Kaushik. New Age International Publishers	Unit 5: Environmental Pollution	<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/category/pollution">https://www.conserve-energy-future.com/category/pollution</a>
		<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	

### Additional Recommended Resource Material

Topic No	Topic/ Sub-Topic/ SLO	Reference Book	Topic in the Reference Book	Website
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	

**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.



آغا خان یونیورسٹی ایگزامینیشن بورڈ  
AGA KHAN UNIVERSITY EXAMINATION BOARD

## Teaching and Learning Resources for Grade X Environmental Studies

### Recommended Key Textbook:

Additional Recommended Resource Material				
Topic No	Topic/ Sub-Topic/ SLO	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> <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>Essentials of Environmental Science</i> by N. Vasudevan, NAROSA Publishing House Pvt. Ltd.	Unit 6: Biodiversity and conservation	<a href="https://www.nationalgeographic.org/encyclopedia/endangered-species/">https://www.nationalgeographic.org/encyclopedia/endangered-species/</a>
		<i>Environmental Science: A global Concern</i> by P. Cunningham and Marry Ann Cunningham, McGraw Hill.	Unit 11: Biodiversity: Preserving Species	<a href="http://wildlife.com.pk/endangered/">http://wildlife.com.pk/endangered/</a>

### Additional Recommended Resource Material

Topic No	Topic/ Sub-Topic/ SLO	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="http://www.eschooltoday.com/natural-resources/what-is-a-natural-resource.html">http://www.eschooltoday.com/natural-resources/what-is-a-natural-resource.html</a>  <a href="https://www.conserve-energy-future.com">https://www.conserve-energy-future.com</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	

### Additional Recommended Resource Material

Topic No	Topic/ Sub-Topic/ SLO	Reference Book	Topic in the Reference Book	Website
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://www.livescience.com/27692-deforestation.html">https://www.livescience.com/27692-deforestation.html</a>
		<i>Essentials of Environmental Science</i> by N. Vasudevan, NAROSA Publishing House Pvt. Ltd.	Unit 13: Global Issues on 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>
		<i>Environmental Science: A global Concern</i> by P. Cunningham and Marry Ann Cunningham, McGraw Hill.	Unit 5: Biomes: Global Patterns of Life	<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>



### Additional Recommended Resource Material

Topic No	Topic/ Sub-Topic/ SLO	Reference Book	Topic in the Reference Book	Website
12.	Environmental Management	<i>Essentials of Environmental Science</i> by N. Vasudevan, NAROSA Publishing House Pvt. Ltd.	Unit 14: Environmental Management	<a href="https://www.environmentalscience.org/environmental-management-history">https://www.environmentalscience.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> <a href="http://www.environmentalpollution.in/eia-2/stages-of-environmental-impact-assessment-environment/4428">http://www.environmentalpollution.in/eia-2/stages-of-environmental-impact-assessment-environment/4428</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.

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.

<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.