

Book map

Unit	Topics
1 What is environmental science? Listening · Speaking	<ul style="list-style-type: none"> • definition of environmental science • aspects of environmental science
2 What do environmental scientists do? Reading · Writing	<ul style="list-style-type: none"> • the role of environmental scientists • careers in environmental science
3 The atmosphere Listening · Speaking	<ul style="list-style-type: none"> • gaseous composition of the atmosphere • effects of human activity on the atmosphere • depletion of the ozone layer
4 Computers in environmental science Reading · Writing	<ul style="list-style-type: none"> • digital mapping/GIS • computers for research
5 Energy resources Listening · Speaking	<ul style="list-style-type: none"> • non-renewable energy sources and their environmental impact • renewable energy sources, e.g., solar, hydro, wind power
6 Soil as a resource Reading · Writing	<ul style="list-style-type: none"> • composition of soil/different types of soil • impact of intensive farming on soil
7 Recycling waste Listening · Speaking	<ul style="list-style-type: none"> • recycling methods and processes • advantages and disadvantages of recycling
8 Ecosystems Reading · Writing	<ul style="list-style-type: none"> • the Earth's biosphere • definition of ecosystem • how organisms interact within an ecosystem/food chains
9 Preserving biodiversity Listening · Speaking	<ul style="list-style-type: none"> • impact of human activity on flora and fauna • accelerated extinctions • case study: lowland and mountain gorilla
10 Pollution Reading · Writing	<ul style="list-style-type: none"> • environmental effects of modern transportation systems and power stations • technological and legislative measures to reduce pollution
11 Agriculture Listening · Speaking	<ul style="list-style-type: none"> • environmental impacts of modern farming methods • GM foods • organic farming
12 Sustainability Reading · Writing	<ul style="list-style-type: none"> • the concept of sustainability • survey gathering quantitative data on attitudes to sustainable transport

Vocabulary focus	Skills focus	Unit
<ul style="list-style-type: none"> words from general English with a special meaning in environmental science prefixes and suffixes 	<p>Listening</p> <ul style="list-style-type: none"> preparing for a lecture predicting lecture content from the introduction understanding lecture organization choosing an appropriate form of notes making lecture notes <p>Speaking</p> <ul style="list-style-type: none"> speaking from notes 	1
<ul style="list-style-type: none"> English-English dictionaries: headwords · definitions · parts of speech · phonemes · stress markers · countable/uncountable · transitive/intransitive 	<p>Reading</p> <ul style="list-style-type: none"> using research questions to focus on relevant information in a text using topic sentences to get an overview of the text <p>Writing</p> <ul style="list-style-type: none"> writing topic sentences summarizing a text 	2
<ul style="list-style-type: none"> stress patterns in multi-syllable words prefixes 	<p>Listening</p> <ul style="list-style-type: none"> preparing for a lecture predicting lecture content making lecture notes using different information sources <p>Speaking</p> <ul style="list-style-type: none"> reporting research findings formulating questions 	3
<ul style="list-style-type: none"> computer jargon abbreviations and acronyms discourse and stance markers verb and noun suffixes 	<p>Reading</p> <ul style="list-style-type: none"> identifying topic development within a paragraph using the Internet effectively evaluating Internet search results <p>Writing</p> <ul style="list-style-type: none"> reporting research findings 	4
<ul style="list-style-type: none"> word sets: synonyms, antonyms, etc. the language of trends common lecture language 	<p>Listening</p> <ul style="list-style-type: none"> understanding 'signpost language' in lectures using symbols and abbreviations in note-taking <p>Speaking</p> <ul style="list-style-type: none"> making effective contributions to a seminar 	5
<ul style="list-style-type: none"> synonyms, replacement subjects, etc. for sentence-level paraphrasing 	<p>Reading</p> <ul style="list-style-type: none"> locating key information in complex sentences <p>Writing</p> <ul style="list-style-type: none"> reporting findings from other sources: paraphrasing writing complex sentences 	6
<ul style="list-style-type: none"> compound nouns fixed phrases from environmental science fixed phrases from academic English common lecture language 	<p>Listening</p> <ul style="list-style-type: none"> understanding speaker emphasis <p>Speaking</p> <ul style="list-style-type: none"> asking for clarification responding to queries and requests for clarification 	7
<ul style="list-style-type: none"> synonyms nouns from verbs definitions common 'direction' verbs in essay titles (<i>discuss, analyze, evaluate, etc.</i>) 	<p>Reading</p> <ul style="list-style-type: none"> understanding dependent clauses with passives <p>Writing</p> <ul style="list-style-type: none"> paraphrasing expanding notes into complex sentences recognizing different essay types/structures: descriptive · analytical · comparison/evaluation · argument writing essay plans writing essays 	8
<ul style="list-style-type: none"> fixed phrases from environmental science fixed phrases from academic English 	<p>Listening</p> <ul style="list-style-type: none"> using the Cornell note-taking system recognizing digressions in lectures <p>Speaking</p> <ul style="list-style-type: none"> making effective contributions to a seminar referring to other people's ideas in a seminar 	9
<ul style="list-style-type: none"> 'neutral' and 'marked' words fixed phrases from environmental science fixed phrases from academic English 	<p>Reading</p> <ul style="list-style-type: none"> recognizing the writer's stance and level of confidence or tentativeness inferring implicit ideas <p>Writing</p> <ul style="list-style-type: none"> writing situation-problem-solution-evaluation essays using direct quotations compiling a bibliography/reference list 	10
<ul style="list-style-type: none"> words/phrases used to link ideas (<i>moreover, as a result, etc.</i>) stress patterns in noun phrases and compounds fixed phrases from academic English words/phrases related to farming and environmental issues 	<p>Listening</p> <ul style="list-style-type: none"> recognizing the speaker's stance writing up notes in full <p>Speaking</p> <ul style="list-style-type: none"> building an argument in a seminar agreeing/disagreeing 	11
<ul style="list-style-type: none"> verbs used to introduce ideas from other sources (<i>X contends/suggests/asserts that ...</i>) linking words/phrases conveying contrast (<i>whereas</i>), result (<i>consequently</i>), reasons (<i>due to</i>), etc. words for quantities (<i>a significant minority</i>) 	<p>Reading</p> <ul style="list-style-type: none"> understanding how ideas in a text are linked <p>Writing</p> <ul style="list-style-type: none"> deciding whether to use direct quotation or paraphrase incorporating quotations writing research reports writing effective introductions/conclusions 	12