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| AP Environmental Science | | **Standards-Based Education Priority Standards** |
| **12th Grade** | | |
| *Energy Transfer* | | |
| ENG-1 | Energy can be converted from one form to another. | |
| ENG-2 | Most of the Earth's atmospheric processes are driven by input of energy from the sun. | |
| ENG-3 | Humans use energy from a variety of sources, resulting in positive and negative consequences. | |
| *Interactions Between Earth Systems* | | |
| ERT-1 | Ecosystems are the result of biotic and abiotic interactions. | |
| ERT-2 | Ecosystems have structure and diversity that change over time. | |
| ERT-3 | Populations change over time in reaction to a variety of factors. | |
| ERT-4 | Earth's systems interact, resulting in a state of balance over time. | |
| *Interactions Between Different Species and the Environment* | | |
| EIN-1 | Human populations change in reaction to a variety of factors, including social and cultural factors. | |
| EIN-2 | When humans use natural resources, they alter natural systems. | |
| EIN-3 | Pollutants can have both direct and indirect impacts on the health of organisms, including humans. | |
| EIN-4 | The health of a species is closely tied to its ecosystem, and minor environmental changes can have a large impact. | |
| *Sustainability* | | |
| STB-1 | Humans can mitigate their impact on land and water resources through sustainable use. | |
| STB-2 | Human activities have physical, chemical, and biological consequences for the atmosphere. | |
| STB-3 | Human activities, including the use of resources, have physical, chemical, and biological consequences for ecosystems. | |
| STB-4 | Local and regional human activities can have impacts at the global level. | |
| *Science Practices and Literacy* | | |
| Practice 1 | Concept Explanation: Explain environmental concepts, processes, and models presented in written format. | |
| Practice 2 | Visual Representations: Analyze visual representations of environmental concepts and processes. | |
| Practice 3 | Text Analysis: Analyze sources of information about environmental issues. | |
| Practice 4 | Scientific Experiments: Analyze research studies that test environmental principles. | |
| Practice 5 | Data Analysis: Analyze and interpret quantitative data represented in tables, charts, and graphs. | |
| Practice 6 | Mathematical Routines: Apply quantitative methods to address environmental concepts. | |
| Practice 7 | Environmental Solutions: Propose and justify solutions to environmental problems. | |
| 11-12 RST.3 | Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text. | |
| 11-12.RST.7 | Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem. | |
| 11-12.WHST.1 | Write arguments focused on discipline-specific content. | |
| 11-12.WHST.8 | Gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the strengths and limitations of each source in terms of the specific task, purpose, and audience; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and overreliance on any one source and following a standard format for citation. | |