



Science Practices

Practice 1	Practice 2	Practice 3	Practice 4
<p>Concept Explanation 1 Explain environmental concepts, processes, and models presented in written format.</p>	<p>Visual Representations 2 Analyze visual representations of environmental concepts and processes.</p>	<p>Text Analysis 3 Analyze sources of information about environmental issues</p>	<p>Scientific Experiments 4 Analyze research studies that test environmental principles</p>

SKILLS

<p>1.A Describe environmental concepts and processes.</p> <p>1.B Explain environmental concepts and processes.</p> <p>1.C Explain environmental concepts, processes, or models in applied contexts.</p>	<p>2.A Describe characteristics of an environmental concept, process, or model represented visually.</p> <p>2.B Explain relationships between different characteristics of environmental concepts, processes, or models represented visually:</p> <ul style="list-style-type: none">▪ In theoretical contexts▪ In applied contexts <p>2.C Explain how environmental concepts and processes represented visually relate to broader environmental issues.</p>	<p>3.A Identify the author's claim.</p> <p>3.B Describe the author's perspective and assumptions.</p> <p>3.C Describe the author's reasoning (use of evidence to support a claim).</p> <p>3.D Evaluate the credibility of a source (<i>not assessed</i>):</p> <ul style="list-style-type: none">▪ Recognize bias▪ Scientific accuracy <p>3.E Evaluate the validity of conclusions of a source or research study (<i>not assessed</i>).</p>	<p>4.A Identify a testable hypothesis or scientific question for an investigation.</p> <p>4.B Identify a research method, design, and/or measure used.</p> <p>4.C Describe an aspect of a research method, design, and/or measure used.</p> <p>4.D Make observations or collect data from laboratory setups (<i>not assessed</i>).</p> <p>4.E Explain modifications to an experimental procedure that will alter results.</p>
--	---	--	--



AP ENVIRONMENTAL SCIENCE

Science Practices (cont'd)

Practice 5	Practice 6	Practice 7
<p>Data Analysis 5 Analyze and interpret quantitative data represented in tables, charts, and graphs</p>	<p>Mathematical Routines 6 Apply quantitative methods to address environmental concepts</p>	<p>Environmental Solutions 7 Propose and justify solutions to environmental problems</p>
<p>5.A Describe patterns or trends in data.</p> <p>5.B Describe relationships among variables in data represented.</p> <p>5.C Explain patterns and trends in data to draw conclusions.</p> <p>5.D Interpret experimental data and results in relation to a given hypothesis.</p> <p>5.E Explain what the data implies or illustrates about environmental issues.</p>	<p>6.A Determine an approach or method aligned with the problem to be solved.</p> <p>6.B Apply appropriate mathematical relationships to solve a problem, with work shown (e.g., dimensional analysis).</p> <p>6.C Calculate an accurate numeric answer with appropriate units.</p>	<p>7.A Describe environmental problems.</p> <p>7.B Describe potential responses or approaches to environmental problems.</p> <p>7.C Describe disadvantages, advantages, or unintended consequences for potential solutions.</p> <p>7.D Use data and evidence to support a potential solution.</p> <p>7.E Make a claim that proposes a solution to an environmental problem in an applied context.</p> <p>7.F Justify a proposed solution, by explaining potential advantages.</p>