

Biodiversity Project Rubric

Vertebrate: _____ Invertebrate: _____ Plant: _____

Points Earned	The Learner will:
_____/10	<p>Page #1 Describe their main organism's environment by including <u>ALL</u> of the following:</p> <ul style="list-style-type: none"> • Where is your vertebrate's environment found in the Bitterroot Valley? (For example, riparian, grassland, forest, or alpine zone of the Bitterroot River,) (You may include a map) • What unique features does the vertebrate's environment provide for your organism? • What climate and landforms are mainly found in your vertebrate's environment?
_____/10	<p>Page #2</p> <ul style="list-style-type: none"> • Include a detailed picture of the three organisms in their environment. Make sure you use colors and labels where needed.)
_____/10	<p>Page #3</p> <ul style="list-style-type: none"> • Identify, illustrate, and describe how the vertebrate's traits (<i>structures & functions</i>) make it MOSTLY adapted to survive in its environment. Include, for example, body structures, body coverings, body color, etc.
_____/10	<p>Page #4</p> <ul style="list-style-type: none"> • Identify and label the life cycle of their vertebrate.
_____/10	<p>Page #5</p> <ul style="list-style-type: none"> • Illustrate and label the <i>life cycle of their chosen</i> invertebrate that is found in the main organism's ecosystem. • Explain how this organism fits into their vertebrate's food chain.
_____/10	<p>Page #6</p> <ul style="list-style-type: none"> • Illustrate and label the <i>life cycle</i> of their chosen plant that is found in the vertebrate's environment. • Explain how this plant fits into their vertebrate's food chain.
_____/10	<p>Page #7</p> <ul style="list-style-type: none"> • Illustrate in detail the specific feeding relationships (Consumers, producers, decomposers) among species within the three organism's ecosystem (<i>food chain</i>)
_____/10	<p>Page #8</p> <ul style="list-style-type: none"> • Illustrate and label (Consumers, producers, decomposers) the feeding relationships (<i>flow of energy</i>) among all main species within the three organisms' ecosystem. (food web).
_____/10	<p>Page #9</p> <ul style="list-style-type: none"> • Illustrate and explain what can happen if their organisms are removed/eliminated from their food web. (Remember what happened in Yellowstone Park when the wolves were gone?)
Total	<p>Page #10 Write two paragraphs each explaining and describing the following:</p> <ul style="list-style-type: none"> • Explain how people's actions may affect their organisms' environment and predict what might happen to their ecosystem. • Describe what people can do to help protect the Bitterroot Valley's ecosystem.
_____%	

<p>Total _____ %</p>	<p>Writers’: Use of <i>text features</i> is essential in understanding the content of the informational book (<i>bold print, colored text, italics, diagrams, highlighted text, captions, bullets, table of contents, glossary, maps, charts</i>).</p> <ul style="list-style-type: none"> ● Use science vocabulary correctly (resource, symbiosis, competition, niche, energy flow, stewardship) ● include pictures and captions to improve meaning. ● use diagrams to aid understanding ● label diagrams to increase understanding of science concepts. ● include and label a map to show location of organisms’ environment ● use titles and subtitles when appropriate. ● include bold print, colored text, italics and highlighted text to aid comprehension. ● Provide adequate focus on the topic. ● Have very strong sentence structure. ● Have consistent grammar usage. ● Have no errors in punctuation, capitalization, and/or spelling that impedes communication/understanding.
<p>Total _____ %</p>	<p>Speakers:</p> <ul style="list-style-type: none"> ● use their own words to present ● read with expression and fluency ● include points that are made in a very creative way and hold the audience’s attention throughout. ● include everyone with a part ● use consistent voices, facial expressions, and movements to make the characters believable and the story more easily understood. ● assure audience can clearly hear and understand all speakers ● assure presentation appears well rehearsed