

## SEPUP Modules Scoring Guide: Analyzing Data (AD)

<b>Level 0</b>	Your response is missing or not relevant.
<b>Level 1</b> <i>On your way</i>	<ul style="list-style-type: none"><li>• You identify evidence and/or</li><li>• You explain what you think the evidence means.</li></ul>
<b>Level 2</b> <i>Almost there</i>	<ul style="list-style-type: none"><li>• You explain what you think the evidence means.</li><li>• You use some evidence to support your ideas.</li></ul>
<b>Level 3</b> <i>Complete and correct</i>	<ul style="list-style-type: none"><li>• You use evidence to support a logical interpretation of the data.</li><li>• You evaluate the source, quality, and/or quantity of evidence.</li></ul>
<b>Level 4</b> <i>Above and beyond</i>	<p>You accomplish Level 3 and go beyond in some significant way such as:</p> <ul style="list-style-type: none"><li>• You present a thorough examination of evidence.</li><li>• You connect your ideas with the science concepts learned.</li><li>• You provide an explanation for why alternative ideas were discarded.</li><li>• You provide suggestions for further relevant investigations.</li><li>• You include a diagram or visual to clarify your ideas.</li></ul>

## SEPUP Modules Scoring Guide: Evidence and Trade-Offs (ET)

Level 0	Your response is missing or not relevant.
Level 1 <i>On your way</i>	<ul style="list-style-type: none"><li>• You state at least one option.</li><li>• You explain why you chose an option.</li></ul>
Level 2 <i>Almost there</i>	<ul style="list-style-type: none"><li>• You state at least one option.</li><li>• You use some evidence to explain why you are for or against an option.</li></ul>
Level 3 <i>Complete and correct</i>	<ul style="list-style-type: none"><li>• You state at least two options.</li><li>• You use evidence to explain why you are for or against an option.</li><li>• You explain why one option is better than another by comparing the advantages and disadvantages (weighing the trade-offs) of two options.</li></ul>
Level 4 <i>Above and beyond</i>	<p>You accomplish Level 3 and go beyond in some significant way such as:</p> <ul style="list-style-type: none"><li>• You accurately weigh the trade-offs of three or more options.</li><li>• You include relevant evidence that was not studied in class.</li><li>• You evaluate the source, quality, or quantity of evidence.</li><li>• You propose relevant experiments or research.</li><li>• You include a diagram or other visual aid to clarify your ideas.</li></ul>

## SEPUP Modules Scoring Guide: Designing Investigations (DI)

<p><b>Level 0</b></p>	<p>Your response is missing or not relevant.</p>
<p><b>Level 1</b> <i>On your way</i></p>	<ul style="list-style-type: none"> <li>• You attempt to communicate a purpose for the investigation.</li> <li>• You attempt to communicate an experimental design.</li> </ul>
<p><b>Level 2</b> <i>Almost there</i></p>	<ul style="list-style-type: none"> <li>• You communicate a purpose for the investigation.</li> <li>• You control some of the key variables in your experimental design.</li> <li>• You use words and/or diagrams to communicate an experimental design, but some steps are missing or are not fully described.</li> </ul>
<p><b>Level 3</b> <i>Complete and correct</i></p>	<ul style="list-style-type: none"> <li>• You communicate the purpose for the investigation.</li> <li>• You control all of the key variables in your experimental design.</li> <li>• You use words and/or diagrams to communicate an appropriate experimental design that is reproducible by another person.</li> </ul>
<p><b>Level 4</b> <i>Above and beyond</i></p>	<p>You accomplish Level 3 and go beyond in some significant way such as:</p> <ul style="list-style-type: none"> <li>• If you make a prediction, you justify your prediction based on prior experience, knowledge, or data.</li> <li>• You discuss potential problems and limitations of your investigation.</li> <li>• You include relevant background information and research about your question.</li> </ul>