

Cloud in a Bottle Pre-Assessment Rubric

Category	4-Advanced	3-Profficient	2-Partially Proficient	1- Unsataisfactory
Drawings/Captions	<p>___ Exceptional detail</p> <p>___ Exceptional use of color for communication</p> <p>Example: using appropriate colors to indicate relative temperatures of the air within the bottle</p> <p>___ Additional captions which add to the understanding of the demonstration</p> <p>Example: Observations of the cloud which indicate its extremely low density – how it drifted out of the bottle</p>	<p>___ Drawing clearly illustrates pump system, bottle, water, alcohol, and cloud.</p> <p>___ Color is used for clarification.</p> <p>___ Captions help explain procedure and scientific explanation included in demonstration</p> <p>___ why pressure is necessary</p> <p>___ what the drop in pressure demonstrates</p>	One of the criteria for the 3-Proficient response is missing or incomplete.	Two or more of the criteria for the 3-Proficient response are missing or incomplete
Summary Paragraph	<p>Discussion includes additional insight relevant to the topic:</p> <p>___ Forms of condensation</p> <p>___ Relative humidity</p> <p>___ When precipitation actually occurs in a cloud</p> <p>___ Other</p>	<p>Clearly explains how the system models cloud formation:</p> <p>___ Water</p> <p>___ Pressurizing the bottle</p> <p>___ Water as gas (vapor</p> <p>___ Releasing the pressure</p> <p>___ references to the water cycle are made</p>	One of the criteria for the 3-Proficient response is missing or incomplete.	Two or more of the criteria for the 3-Proficient response are missing or incomplete