

Dippy Bird I Lab

Name _____

CATEGORY	EXEMPLARY	ACCOMPLISHED	DEVELOPING	EMERGENT
Quality of Presentation	Excellent effort that successfully communicates all the relevant features of the experiment in a thoroughly professional looking manner	Good effort that is facilitates the reader's understanding of the data with no substantive errors in plots, calculations, grammar or communication.	Good effort with some errors in plot labeling or calculations; inconsistencies in presentation, grammar, or communication (handwritten)	Some effort, small and hard to read or hand written, ineffective communication of concepts
Cited Description and Data	Explores more subtle distinctions about correctness of quote with comparisons between multiple sources	Source of description is noted and cited and text quoted. Character of text is clearly identified as flawed or correct with fluid properties present.	Source of description is noted and cited and text quoted. Not clear whether correct or flawed. Fluid properties present.	Source of description is noted but not included or cited appropriately.
Evidence in Support	Considers balance of evidence in presentation while considering multiple bits of supporting evidence in broader context.	Structure clearly indicates evidence supporting quoted source and evidence is mostly consistent and complete. Multiple items of evidence common.	Structure clearly indicates evidence supporting quoted source but evidence is inconsistent, limited, or incomplete	Some evidence in support of quoted source is presented. Hard to follow or primarily anecdotal.
Why not Ideal? (volume calculation)	...and keeps going to explore other unfulfilled expectations of the ideal gas law.	Articulates Ideal Gas Law, determines volume of gas and change in volume and correlates results with observations	Articulates Ideal Gas Law, determines volume of gas and calculates the change in volume due to temperature change	Articulates Ideal Gas Law, and determines volume of gas
power output calculation	Gets fascinated with the possibilities and writes a grant proposal to NREL to develop a test facility in central Oregon	Uses appropriate concepts from previous physics and applies them effectively to determine the power output of the bird	uses appropriate concepts from previous physics with limited explanation or clarity	waxes rhapsodic about the possibility of fields of dippy birds saving future generations by their power generation