

Name _____

Date _____

HB _____

Forces and Motion Science Project

Glider Construction and Presentation

Scientific Investigation of Bernoulli's Principle and the Forces of Flight

Novice <i>begins to approach expectations</i>	Apprentice <i>approaches expectations</i>	Proficient <i>meets expectations</i>	Distinguished <i>exceeds expectations</i>
		<p>Comprehension Grade _____</p> <ul style="list-style-type: none"> • Presentation <ul style="list-style-type: none"> ○ Define the four forces of flight (lift, drag, thrust, gravity). ○ Describe how the design and construction of their glider fits into the engineering design process and how their original design was modified. ○ Interpret their own and class data represented in graphs and tables. ○ Describe how Bernoulli's Principle creates lift on a wing. ○ Present their work in a clear and organized manner, using appropriate vocabulary. 	
		<p>Application Grade _____</p> <ul style="list-style-type: none"> ○ 1st prototype hang time _____ • Final Design hang time _____ <ul style="list-style-type: none"> ○ Calculate the correct aspect ratio. ○ Read and interpret their own and class data represented in graphs and tables. ○ Analyze the data and make a meaningful connection between the results of the data and how to construct their second glider to maximize their glider's performance. ○ Work successfully with a partner. 	
		<p><u>Quality and Format</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> No spelling or grammar errors exist in your writing <input type="checkbox"/> All work handed in on time. 	