Student Astronaut Challenge 2020 - Design Challenge Paper Rubric

Section 1: Introduction of Research Goal	4	3	2	1	0
1. Did the authors describe the goal of the design?	□Yes	□Mostly	Partially	□Minor	□No
2. Did the authors provide sufficient background information about	□Yes	□Mostly	Partially	□Minor	□No
the engineering ideas and concepts behind their design?	∟Yes	□ Mostly	Partially	∟Minor	□No
3. Did the authors make the problem to be solved explicit and	_	l _	_	_	_
explain how goal is related to the background information?	□Yes	□Mostly	Partially	□Minor	□No
Section 2: Design					
4. Did the authors include a diagram of the device?	□Yes	□Mostly	Partially	□Minor	□No
5. Does the diagram include labels to explain the size (mass &	□Yes	□Mostly	Partially	□Minor	\square No
dimensions) of the device?	 	<u> </u>			⊥_
6. Did the authors provide a list of sources for their cost estimate?	□Yes	Mostly	Partially	□Minor	□No
7. Did the authors describe the estimated cost of the materials used?	□Yes	☐Mostly	Partially	□Minor	□No
8. Did the authors explain the function of the device?	□Yes	□Mostly	Partially	□Minor	□No
9. Did the authors explain how the device meets the design goal?	□Yes	□Mostly	Partially	□Minor	□No
Section 3: The Conclusion					
10. Did the authors provide a comprehensive summary of their	□Yes	□Mostly	Partially	□Minor	\square No
design proposal?					
11. Did the authors identify the importance and impact their design	□Yes	☐Mostly	Partially	□Minor	□No
will have on astronaut health?					
Mechanics of the Paper					
1. Organization : Is each section easy to follow?	Yes	Mostly	Partially	Minor	□No
2. Organization : paragraphs include multiple sentences?	□Yes	□Mostly	Partially	□Minor	□No
3. Organization : Do paragraphs begin with a topic sentence?	□Yes	☐Mostly	Partially	□Minor	□No
4. Grammar: Are the sentences complete?	□Yes	□Mostly	Partially	□Minor	□No
5. Grammar: Is there proper subject-verb agreement in each	□Yes	□Mostly	Partially	□Minor	□No
sentence?	 		_		⊥_
6. Grammar: Does the paper contain run-on sentences?	□Yes	□Mostly	Partially	□Minor	□No
7. Conventions: Did the authors use appropriate spelling?	□Yes	☐Mostly	Partially	□Minor	□No
O. Constant and Dilling all the state of the		(1-2errors)	(3-4 errors)	(5-6 errors)	(7+errors)
8. Conventions: Did the authors use appropriate punctuation?	□Yes	Mostly	Partially	Minor	□No
9. Conventions : Did the authors use appropriate paragraphing &	□Yes	□Mostly	Partially	□Minor	□No
capitalization? 10. Conventions: Did the authors use appropriate scientific terms	 	-	+		+
and phrases to describe the nature of the investigation and the	□Yes	□Mostly	Partially	□Minor	□No
elements of his/her argument?		Liviostry	i ar dany	mmor	
11. Formatting: Did the authors use <u>APA format</u> ? (click link for APA	□Yes	□Mostly	Partially	□Minor	□No
guide)					
12. Formatting: Did the authors use 12 point Times New Roman	□Yes	□Mostly	Partially	□Minor	□No
font?	<u> </u>				
13. References: Did the authors cite the work of others, where	□Yes	□Mostly	Partially	□Minor	□No
appropriate, using APA format? (click link for APA guide)		,			+
14. Authorship: Did the authors identify the members of the team that participated in the experimental proposal development.	□Yes	□Mostly	Partially	□Minor	□No
Bonus: The solution was creative and unique! (5 points)	□Yes				
Totals	Lires				Total
Totals					Total
					/100
		<u> </u>			

Judge feedback for team members:

Additional judge feedback for team members: