

ABS Instructions & Rubrics

Instructions

1. Title page

- a. Page with title.
- b. Name.
- c. Date.
- d. Class.
- e. Picture.

2. Problem Statement

- a. What design for the _____(Your system)_____ system

will actually function mechanically, connect to an existing ABS

design, and illustrate a certain medical problem with **cure** or

corrective to maintain *homeostasis*?

3. Gathering Information

- a. System Information.. Explain each part's function.(notes + research)
- b. Draw (diagram) of the body system with labels.

4. Hypothesis

Write the hypothesis below:

By using the _____(Make a Name)_____ design, my

artificial _____(System Type)_____ system will operate

like a human's, connect to another ABS system, and correct or cure

_____ (Disorder)_____.

5. Procedure

- a Materials list. (Make a table with **Quantity** and **Item**.)
- b Design diagram. (Drawing(**labeled**) of what you build.)
- c Step by step directions on how to make your design. (**Past Tense**)
- d Operation instructions. (**How to operate**.)
- e Medical problem and corrective/cure instructions. (**Explanation**)

6. Record and Analyze

- a. Summary of whether it worked and how well. (**Paragraph**)
- b. Pictures of device. (**Pictures Inserted**)
- c. How did corrective/cure work? (**Paragraph**)

7. Conclusion

- a. Hypothesis correct? Why? (**Paragraph**)
- b. Explain what you would do differently with design to make it work better. (**Paragraph**)

SCI. 6-8.LS.02.01					
Life Science : Human Bodies : I understand the organization of the human body and the relatedness between structure and function					
Learning Target 1 : I understand that the human body strives to achieve a stable internal environment and is in a constant state of change.					
4 Rigor:	3.5 Rigor:	3 Rigor: Analysis	2.5 Rigor: Comprehension	2 Rigor: Comprehension	1
	Independently: Understand how body systems interact to maintain homeostasis and keep a human	With support: Has the 3.5 content	Independently: Understands the term homeostasis	With support: meets the 2.5 content	Does not have: The 2.5 content even with support

	alive				
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SCI. 6-8.LS.02.02					
Life Science : Human Bodies : I understand the organization of the human body and the relatedness between structure and function					
Learning Target 2 : I understand that the human body is made up of systems that work together to maintain homeostasis. (Grade 7)					
4 Rigor:	3.5 Rigor:	3 Rigor	2.5 Rigor:	2 Rigor: Retrieving	1 Rigor: Retrieving
	Independently: Will explain what happens when the body is not in homeostasis and what the body will need to do to get back to this state	With support: Has the 3.5 content	Independently: Will construct a presentation that shows how 2 body systems working together can maintain homeostasis	With support: Has the 2.5 content	Does not have: The 2.5 content even with support