

Name _____ Date _____

Design a Submersible: Design Rubric

Use the following criteria to guide you as you develop your location profile, concept design, and design report.

Category	Needs Improvement (1)	Satisfactory (2)	Good (3)
Location Profile			
Map showing dive location	A map showing a dive location is not included.	A map showing a design location is included, but the location does not meet the parameters of the problem.	A map is included showing a location that meets all the parameters of the problem, including: location is in the abyssopelagic zone and location has a likelihood of greater biodiversity.
Location information (depth, pressure, water temperature, life forms that could be seen)	Information about expected conditions at the dive location is not included.	Some information about expected conditions at the dive location is included, but information is not complete and/or is inaccurate.	Complete, accurate information about expected conditions at the dive location is included.
Concept Design			
Drawing	Drawing of concept design shows few details and does not address problem constraints.	Drawing of concept design shows a moderate level of details but does not address all the problem constraints.	Drawing of concept design is highly detailed and addresses all the problem constraints.
Labeling	The concept design is not labeled.	Most parts of the concept design are accurately labeled.	All parts of the concept design are accurately labeled.
Materials	The concept design does not include the materials that will be used.	The concept design includes only some of the materials that will be used.	The concept design includes the materials that will be used for all parts of the design.

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Design a Submersible: Design Rubric, continued

Assessment Item	Needs Improvement (1)	Satisfactory (2)	Good (3)
Design Report			
Constraints	The design report does not include how the design addresses the constraints of the problem.	The design report includes how the design addresses some, but not all, of the constraints of the problem.	The design report includes how the design addresses all of the constraints of the problem.
Considerations	The design report does not include how the design addresses the considerations of the problem.	The design report includes how the design addresses some, but not all, of the considerations of the problem.	The design report includes how the design addresses all of the considerations of the problem.
How design will solve the given problem	The design report does not address how the design will solve the problem.	The design report addresses but does not fully explain how the design will solve the problem.	The design report fully explains how the design will solve the problem.

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