

Build a Submarine Rubric

Criteria	Level 1	Level 2	Level 3	Level 4
Design	Unclear or no design plan with little or no evidence of unit concepts	Design plan with unclear evidence of unit concepts	Clear design plan with evidence of some of the unit concepts	Clear, concise, well developed design plan with definite evidence of unit concepts
Construction Phase	No submarine constructed or submarine incomplete with no external means of control	Submarine complete with limited or no external means of control	Submarine complete with planned external means of control	Submarine complete, featuring well designed external means of control
Submarine Operation	Submarine floats or sinks only	Submarine floats, sinks	Submarine floats, sub surfaces, sinks	Submarine floats, sub surfaces, sinks, and returns to water surface
Presentation	Student does not present submarine or explanation of submarine function not evident	Student presents submarine with unclear explanation of submarine function	Student presents submarine with clear explanation of submarine function	Student presents submarine with extensive explanation of submarine functions
Use of Unit Concepts	Student fails to incorporate any unit concepts in project	Student incorporates 2 or less unit concepts or are unclear as to presence in overall completed project	Student incorporates 3 out of 5 unit concepts in project	Student incorporates all main unit concepts in project (mass, volume, density, ballast, buoyancy)