

Name: _____

Date: _____

Class: _____

Grading Rubric

Category	Excellent (Full Credit)	Proficient	Developing	Needs Improvement	Points Earned
1. Design & Engineering Process (20 pts)	Clear, well-documented design; thoughtful prototype that demonstrates creative and functional thinking. Uses engineering design process steps effectively.	Mostly clear design; prototype mostly functional with some revisions.	Incomplete or unclear design; prototype may be missing key features.	Prototype not functional or design process not documented.	____ / 20
2. Circuit & Arduino Coding (20 pts)	Circuit is fully functional; code is clearly written, includes servo & FSR integration, and runs without errors.	Circuit is mostly functional; code has minor issues but meets core goals.	Circuit or code has significant flaws or errors; only partially functional.	Circuit or code are not working; little understanding shown.	____ / 20
3. Data Collection & Testing (15 pts)	Data is complete, organized, and collected systematically. Data supports analysis.	Data is mostly complete and shows a general trend.	Data is partially collected; organization or accuracy needs improvement.	Data missing or unreliable; little effort in testing.	____ / 15
4. Mathematical Modeling & Analysis (15 pts)	Graph is accurate; correct regression applied; analysis of vertex and features is thoughtful and mathematically sound.	Graph and regression are mostly accurate; basic analysis is provided.	Graph is incomplete or inaccurate; limited analysis.	No graph or analysis submitted.	____ / 15
5. Real-World Relevance & Research (10 pts)	Research shows deep understanding of real-world applications; strong connection to biomedical engineering.	Research includes some connections to real-world applications.	Basic or incomplete research; unclear relevance to the real world.	No research or connection provided.	____ / 10
6. Final Presentation (15 pts)	Clear, confident, well-organized; includes design, data, code, and real-world reflection. All team members contribute.	Mostly clear and organized; includes most required elements.	Presentation lacks clarity or key components; uneven team participation.	Disorganized or missing key information; unclear delivery.	____ / 15
7. Teamwork & Reflection (5 pts)	Team worked collaboratively and respectfully; strong reflection on learning.	Team worked together with few issues; basic reflection provided.	Collaboration was inconsistent; limited reflection.	Poor collaboration or no reflection submitted.	____ / 5

Total Score: _____ / 100

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