

Category	Item	Unit Cost	Quantity	Estimated Cost	Priority	Budget Logic / OR Role
Core Structure	Rocket body, nose cone, motor mount	\$120	1	\$120	Must-have	Basic structure required for final assembly
Stability System	Fins / stabilizers	\$55	1	\$55	Must-have	Supports flight stability and model accuracy
Recovery System	Parachute / recovery materials	\$70	1	\$70	Must-have	Required for safe landing and reuse
Data & Testing	Altimeter / sensor equipment	\$160	1	\$160	High	Provides height and flight data for validation
Test Launches	Rocket motors for trial launches	\$45	4	\$180	High	Minimum number of tests needed to compare predicted vs. actual results
Safety & Launch	Launch supplies and safety equipment	\$75	1	\$75	Must-have	Ensures launch preparation meets safety needs
Prototyping	CAD / 3D printing / prototype materials	\$90	1	\$90	Medium	Converts design parameters into physical components
Assembly	Tools, adhesives, fasteners	\$60	1	\$60	Must-have	Required for construction and repair
Risk Control	Spare parts and replacement materials	\$80	1	\$80	Medium	Reduces risk of delay from failed tests or damaged parts
Logistics	Transportation / event / registration costs	\$110	1	\$110	Medium	Covers operational costs outside construction
Documentation	Poster, data cards, presentation materials	\$30	1	\$30	Low	Supports final reporting and communication
Reserve	Contingency fund, 10% of total budget	—	—	\$120	Must-have	Protects the project from unexpected expenses
Total				\$1,150		Remaining Balance: \$50

Note:

This table is a simulated financial model created for project presentation purposes. It is intended to demonstrate the budgeting and operations research logic used in Phase 3. The amounts, quantities, and cost structure do not represent the team's actual financial data; real figures have been anonymized and adjusted to protect confidentiality while preserving the budgeting and optimization Aframework.