

WSGC (Collegiate, First Nations, Great Midwest) Rocket Competition 20xx

Team ABC

School Name

Proposed Budget

Component Description	Quantity	Cost Per Unit	Total
<u>BODY FRAME CONSTRUCTION</u>			
Body Tube 3.9" ID 4.0" OD 34 inch length	2	\$10.45	\$20.90
Centering Rings 3.9" OD 38 mm ID 0.5" thickness will be made in house	2	\$8.10	\$16.20
Nose Cone 3.9" outer diameter	1	\$21.95	\$21.95
Construction Supplies Epoxy/Paint/Battery/Hardware/Etc. -	-	\$100.00	\$100.00
<u>PAYLOAD DESIGN</u>			
GoPro Camera	1	\$199.99	\$199.99
<u>AVIONICS</u>			
Altimeters For systematic parachute deployment (Already have 2)	-	-	-
Altimeter Bay Payload bay to hold altimeters	1	\$28.56	\$28.56
Pitot tube Used to calculate velocity of rocket	1	\$350.00	\$350.00
Key switches Used to turn on altimeters at the launch pad	2	\$6.00	\$12.00
GPS Garmin GTU 10 have	-	-	-
<u>MOTOR/PROPULSION</u>			
Motor Mount Tube 38 mm fits I, and J motors; to mount motor in rocket	1	\$7.35	\$7.35
Motor Retainer 38 mm retainer; secures motor in motor mount tube	1	\$31.03	\$31.03
Terminal Block 12 Position terminal strip for wiring ejection charges	1	\$3.49	\$3.49
Rail Buttons For launch; to connect rocket to launch rail	2	\$1.54	\$3.08
<u>RECOVERY</u>			
Parachute 60" SkyAngle (10.2-22.1 lbf) (Already have 1)	-	-	-
Parachute Protector Reusable fire resistant cloth to protect parachute (Already have 4)	-	-	-
Rip Cord 1500lb Kevlar Shock Cord (Cost per foot)	60	\$0.92	\$55.32
<u>GENERAL MATERIALS & SUPPLIES</u>			
Toolbox Storage of tools and components (Already have)	-	-	-
Dremel Rotary tool kit General purpose tool (used for cutting fin slots, sanding, etc.) have Drogue Parachute To eject before main parachute; have one, but will buy spare have Fins Approximate price for G-10; size and shape to be determined	4	\$15.95	\$63.80
<u>TRAVEL EXPENSES</u>			
Air fare	5	\$200.00	\$1,000.00
Baggage fees	2	\$50.00	\$100.00
Shipping fees	-	\$100.00	\$100.00
Rental car	-	\$500.00	\$500.00
Mileage (based on Google map, reimbursement rate of \$0.575 per mile)	90	\$0.58	\$51.75
Tolls & parking	-	\$25.00	\$25.00
Food (\$30/day/person)	5	\$30.00	\$150.00
TOTAL			\$2,840.42