|  |  |  |  |
| --- | --- | --- | --- |
| Model Rocket (assume 4 sessions of teaching) | Cost | Quantity | Total |
| Estes Color the Sky Bulk Pack (12 rockets) would be perfect for kid teams | $103.99 | 1 | $103.99 |
| Model Rocket Starters Pack of Six | $4.99 | 4 | $19.96 |
| Recovery Wadding (but we may need more) subject to change if we can use paper towels | $4.39 | 8 | $35.12 |
| Launcher (won't need if someone has) | $19.99 | 1 | $19.99 |
| B4-2 Standard Engine Pack of 3 | $8.69 | 8 | $69.52 |
| Total |  |  | $248.58 |
|  |  |  |  |
| Phases of the Moon Activity (4 sessions) | Cost | Quantity | Total |
| Oreos 16.6 oz. | $4.10 | 4 | $16.40 |
| SunWorks Construction Paper Smart-Stack, 58 lbs, 12 x 18, Assorted, 150 Sheets Per Pack), | $9.99 | 1 | $9.99 |
| Markers Crayola 10 count | $2.37 | 2 | $4.74 |
| Total |  |  | $31.13 |
|  |  |  |  |
| Elementary/Middle School Tutoring or local school STEM Night (2 group wide sessions otherwise us driving) | Cost | Quantity | Total |
| Travel | $60.00 | 2 | $120.00 |
| Total |  |  | $120.00 |
|  |  |  |  |
| Constellation Activity (4 sessions) | Cost | Quantity | Total |
| Crayola White Crayons (12 pack) | $5.23 | 2 | $10.46 |
| SunWorks Construction Paper, 58 lbs, 18 x 24 - Black (50 Sheets Per Pack) | $5.79 | 2 | $11.58 |
| Total |  |  | $22.04 |
|  |  |  |  |
| Exoplanet Activity (4 sessions) | Cost | Quantity | Total |
| FloraCraft Styrofoam Ball Assortment, Large, White (6 total) | $6.07 | 48 | $291.36 |
| Crayola Kids' Paint - 10 pack, 2 fl oz bottles | $4.99 | 2 | $9.98 |
| HAY Hay Hang - Set Of 5 By HAY (HANGERS) | $11.00 | 10 | $110.00 |
| Stretch Magic Cord, 1mm, 5m - Clear | $1.91 | 2 | $3.82 |
| Total |  |  | $415.16 |
|  |  |  |  |
| Astronaut Glove Box Activity (2 sessions) | Cost | Quantity | Total |
| Shurtape Duct Tape 2" x 60 Yards (48 mm x 55 M) - General Purpose | $3.29 | 2 | $6.58 |
| Corrugated Boxes 12x8x6", Kraft - ULINE - Bundle of 25 - S-4121 | $13.00 | 2 | $26.00 |
| Hygloss Kids Colored Craft Gloves - 12 count | $4.96 | 2 | $9.92 |
| 1 Bag 100g Colorful Mixed Irregular Shape Tumbled Stones Rock Gem | $3.18 | 1 | $3.18 |
| Jumbo Magnifier, Assorted Colors | $7.99 | 6 | $47.94 |
| Total |  |  | $93.62 |
|  |  |  |  |
| Snacks for Kids/Adults for Activities | Cost | Quantity | Total |
| Case of Water | $3.98 | 12 | $47.76 |
| 12 Count Gourmet Cookie Club - Master 6 Month by Cheryl's Cookies | $14.99 | 12 | $179.88 |
| Total |  |  | $227.64 |

|  |  |  |  |
| --- | --- | --- | --- |
| McAuliffe-Shepard Discovery Center | Cost | Quantity | Total |
| Entrance Fees | $ 15.00 | 15 | $ 225.00 |
| Travel | $ 60.00 | 1 | $ 60.00 |
|  |  |  |  |
| Total |  |  | $ 285.00 |

|  |  |  |  |
| --- | --- | --- | --- |
| Components | Cost | Quantity | Total |
| Arduino Nano | $ 21.99 | 1 | $ 21.99 |
| Tower Pro MG995R Servos x 2 | $ 39.90 | 1 | $ 39.90 |
| MPU6050 6 Axis Gyroscope Module | $ 2.99 | 1 | $ 2.99 |
| 50-ft 16 Gauge Copper Wire | $ 10.99 | 1 | $ 10.99 |
| RadioShack Trigger Switch x 3 | $ 6.00 | 1 | $ 6.00 |
| Safety key | $ 5.00 | 1 | $ 5.00 |
| Ignitors | $ 6.00 | 1 | $ 6.00 |
| RadioShack 76dB Piezo Buzzer x 2 | $ 10.38 | 1 | $ 10.38 |
| RadioShack 5mm Green LED x 3 | $ 3.00 | 1 | $ 3.00 |
| BMP180 Barometric Pressure/Temperature/Altitude Sensor- 5V ready | $ 9.95 | 1 | $ 9.95 |
| SunFounder Digital Accelerometer ADXL345 Module for Arduino and Raspberry Pi | $ 7.00 | 1 | $ 7.00 |
| 12 Volt Battery | $ 21.99 | 2 | $ 43.98 |
| 12 Volt Battery Charger | $ 34.99 | 1 | $ 34.99 |
|  |  |  |  |
| Total: |  |  | $ 202.17 |

|  |  |  |  |
| --- | --- | --- | --- |
| Components | Cost | Quantity | Total |
| strain gauge | $60 | 1 | $60 |
| steel tubing 1/4"thick 1 1/2"ID 3ft length | $15 | 1 | $15 |
| steel leg 3/16" x 1 1/4" x 36" | $12 | 1 | $12 |
| steel sheet 24" x 24" .12"thick | $61 | 1 | $61 |
| T Bolt 1/2"-13 | $7.64 | 4 | $30.56 |
|  |  |  |  |
| Total |  |  | $178.56 |

|  |  |  |  |
| --- | --- | --- | --- |
| Components | Cost | Quantity | Total |
| Plywood | $ 19.35 | 1 | $ 19.35 |
| 2x4 | $ 7.80 | 4 | $ 31.20 |
| Metal Rod | $ 6.24 | 1 | $ 6.24 |
| 24"x48" Plate | $ 93.06 | 1 | $ 93.06 |
|  |  |  |  |
| Total |  |  | $149.85 |

|  |  |  |  |
| --- | --- | --- | --- |
| Components | Cost | Quantity | Total |
| Carbon Fiber Fuselage | $90.00 | 7 | $630.00 |
| Carbon Fiber Nose Cone | $30 | 7 | $210.00 |
| Nylon Parachute | $15.00 | 7 | $105.00 |
| Fins | $10.00 | 21 | $210.00 |
|  |  |  |  |
| Total |  |  | $1,155.00 |

|  |  |  |  |
| --- | --- | --- | --- |
| Engine | Cost | Quantity | Total |
| 29mm Engine | $38.00 | 15 | $570.00 |
| 29mm Casing | $32.00 | 6 | $192.00 |
| 29mm Retainers | $9.62 | 3 | $28.86 |
|  |  |  |  |
| Total |  |  | $790.86 |

|  |  |
| --- | --- |
| Groups | Cost |
| Outreach | $ 1,158.17 |
| Networking & Trips | $ 285.00 |
| Electrical Components | $ 145.19 |
| Static Test Fire | $ 178.56 |
| Launch Pad | $ 149.85 |
| Aero | $ 1,155.00 |
| Engine | $ 790.86 |
|  |  |
| Total | $ 3,862.63 |

The following funds are being requested for The Students for the Exploration and Development of Space with the plan that most of the funds would be spent by the end of the 2017-2018 school year. The head of the outreach side of our group has already reached out into the community to try to plan events at local secondary and elementary schools. Funds for outreach would be spent on a case by case basis, though the money will stay partitioned off strictly for outreach events. Just about all monies for the purchase of rocket materials would be spent upon reception of said funds with the hope that manufacturing could begin as soon as possible in order to make deadlines for our rocketry competition.