

# Bottle Rockets Materials List

## Tools Needed:

1. PVC Cutters
2. Scissors
3. Flat head screw driver
4. Phillips head screw driver
5. Tape Measure
6. Box cutters or Exacto knives (*optional*)

## Bottle Rockets

1. Safety Glasses
2. Pre-Made Rocket Launcher
3. Bicycle Pump w/ Pressure Gauge
4. 2L soda bottles
5. Mason string
6. Corrugated Plastic  
[<http://www.homedepot.com/webapp/wcs/stores/servlet/ProductDisplay?catalogId=10053&langId=-1&locStoreNum=6175&productId=202043334&storeId=10051#.URIKkFrXmnY>]
7. Duct Tape
8. Tennis balls
9. Manila Folders
10. Plastic bags
11. Plastic cups
12. Food coloring
13. Vaseline

## Rocket Launchers (Senior Camp only)

1. Schedule 40 PVC 1.5" pipe
2. Schedule 40 PVC ½" pipe
3. Schedule 40 PVC ½" 90° elbows
4. Schedule 40 PVC ½" 45° elbows
5. Schedule 40 PVC ½" end caps
6. Schedule 40 PVC ½" T connectors
7. Schedule 40 PVC ½" Threaded T connectors
8. Schedule 40 PVC ½" Couplings
9. Schedule 40 PVC ½" Threaded Couplings
10. Schedule 40 PVC ½" Threaded Extender
11. Schedule 40 PVC ½" Cross
12. Schedule 40 PVC ½" Side Outlet
13. Schrader valves (McMaster P#: 8063K39)

14. Hose Clamps (McMaster P#: 5388K14)
15. Hose Clamps (McMaster P#: 5388K24)
16. 3/8" x 1/4" tubing (20' lengths)
17. Brass Hose Barb ( 1/2" male NPT thread and 1/4" hose barb) (McMaster P#: 5346k44)
18. Zip Ties (medium ~7" length or greater)
19. O-rings (McMaster P#: 2418T122)
20. 1/2" PVC pipe with O-ring groove (Length: 11")
21. Mason String
22. Teflon tape
23. Rubber Bands