Materials List for Rocket Lab

Each Rocket Kit Requires: To be put into a Gallon-Sized Zip-Loc Bag

- One and 1/2 sheets $(1 \frac{1}{2})$ of $8 \frac{1}{2}$ " x 11" paper (can be printed on one side)
- 30 cm (1ft) length of 1/2" PVC pipe or any tube with a 1/2" diameter
- Scissors
- Clear tape
- 2 Playing Cards (or any stiff paper, such as used file folders or 3" x 5" cards)
- Markers

Launchers – There are two different styles (Basic and WAMC Super-Duty) of launchers that you could build depending on what materials available

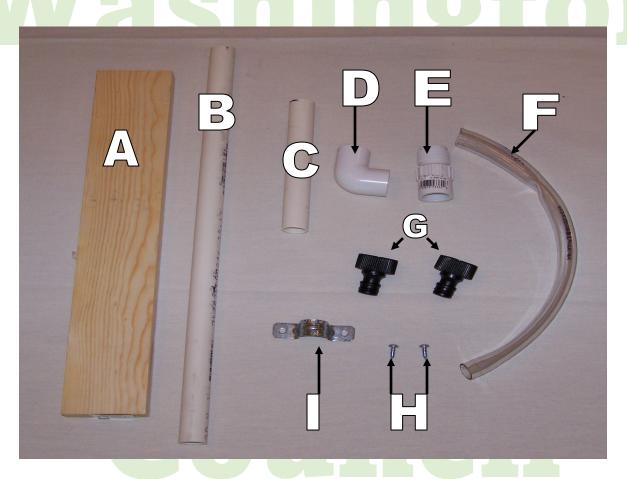
Basic Launcher:

- 2-liter plastic bottle (only one is required for each launcher, but we strongly recommend that you make two launchers and have a couple of extra soda bottles on hand in case one fails)
- 1 meter (about 3 feet) of clear flexible vinyl tubing with 1/2 inch inner diameter and 5/8 inch outer diameter (the type of tubing doesn't matter, as long as you can tape one end to the neck of the soda bottle and the other end to the PVC pipe). Another alternative is to use a Bicycle Inner-Tube.
- Duct tape or Hose Clamp
- 60 cm (about 2 feet) of PVC pipe (schedule 40) with 1/2 inch diameter



WAMC Super-Duty Launcher:

All of the parts necessary to build this launcher can be found at your local hardware store (Lowe's, Home Depot, etc.) and are farily inexpensive to build.



Parts List:

Part Letter	Part Name	Quantity	
Α	Plank (1-1/2 ft X 2-1/2" X ¾")	1	
В	1-1/2 ft long ½" PVC	1	
С	6" long ½" PVC	1	
D	90° ½" PVC Elbow	1	
E	3/4" MHT to 1/2" Slip Hose to Pipe Fitting	1	
F	1ft long Vinyl Tubing (3/4" OD X 5/8" ID)	1	
G	Male Faucet Quick Connecter	2	
4-40	½" Zinc Screw	2	
445.	½" Hose Clamp	100	

WAMC Super-Duty Launcher:

The Assembled Launcher



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