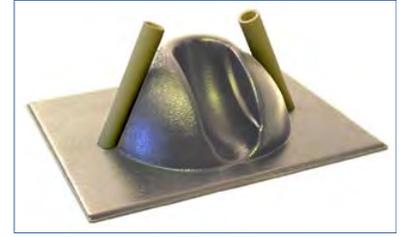


17005 Bottle Rocket Launch Pad

Purpose:

The highly successful Bottle Rocket Launcher (The Science Source #17000) depends, for its stability, on the firm emplacement of two metal prongs into the soil. There are times when this is not possible (e.g. on pavement) or not desirable (e.g. when repeating launches on muddy soil). This product allows safe and productive launches under all of these circumstances, as well as serving as a distinctive display stand back in the classroom.

**Required Accessories:**

Bottle Rocket Launcher (#17000) and its accessories
Optional sand bags, or water bottles, or other suitable weights

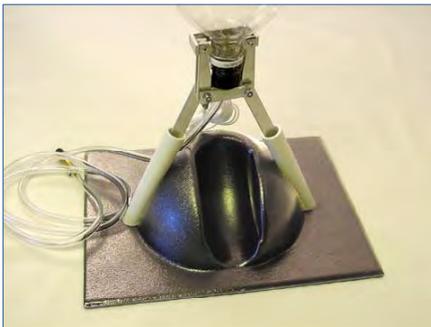
Background:

The Bottle Rocket Launcher, for which this product was designed, has enjoyed enthusiastic support from teachers and students in the educational community on many levels and for many years. The persistent question has been some version of, "... and what if I don't have any soft ground to stick this in?" The search for a satisfying answer to that question has occupied the manufacturer for many years. Other approaches have come and gone. Most designs in the marketplace and the local solutions by individual teachers have seemed cumbersome and costly.

The Pavement Pad™ is the simple and effective design that frees the Bottle Rocket Launcher from its most serious constraint. Once assembled, the Pavement Pad™ offers a stable, light weight support for the unmodified Bottle Rocket Launcher that is impervious to water and weather.

Procedure:

Place the launch pad in a suitable location for safe bottle rocket launching. Sand bags water bottles or other suitable weights may be placed on the flange of the launch pad to add stability if desired. Insert the legs of the bottle rocket launcher (# 17000) into the tubes of the launch pad as illustrated. (Fig. 2)



With the bottle rocket launcher assembled to the launch pad it is suggested that the launch "exhaust" chute be pointed away from the lanyard (operator) lest the water ejected from the bottle rocket during launch be directed toward the operator. (Fig. 3)



Safety First:

Warning!	
Do: Do Wear Protective Eye Gear Do Wear Protective Clothing (rain gear)	Do Not: Do Not Aim at Anyone Do Not Pressurize Beyond 40 psi
Do use sand bags or other weights if needed	Do Not Stand Over Pressurized Rocket
Do release with a sharp snap of the line	Do Not Stand Within 10 Feet of Launching Rocket

Rocket Safety:

Now that you are ready to try your own high performance rocket, it is worth repeating a few of the safety rules.

- 1) **Do not exceed 40 psi while pressurizing the bottle.**
- 2) **Don't look down on the rocket during or after it is pressurization.**
- 3) **Don't aim your rocket at any people, buildings, or other structures.**
- 4) **Always set up your rocket well away from any trees, telephone wires, or houses.**
- 5) **Do not launch your rocket where it may damage someone's car.**

Remember - as pilot in command, you are responsible for every flight!

Time Allocation:

To prepare this product for an experimental trial should take less than two minutes. Actual experiments will vary with needs of students and the method of instruction, but are easily concluded within one class period.

Feedback:

If you have a question, a comment, or a suggestion that would improve this product, you may call our toll free number.