HYDRO BLAST

AGES 8+

LIQUID ROCKET LAUNCHER



LAUNCH UP TO 30M WITH ONLY WATER

PUMP AND BLAST OFF! NO BATTERIES REQUIRED

SIMPLE TO SET UP FOR ENDLESS FUN

Unleash the power of pressure and force with this thrilling liquid rocket launcher, a hands-on adventure that takes learning to new heights! Discover how physics works in real time and explore the dynamic relationship between pressure and propulsion. Experiment with different liquid ratios to see how they affect flight performance, and fine tune the rocket for maximum altitude. Perfect for curious minds who love interactive experiments and sky high fun. Ready, set, launch!

SET INCLUDES

Rocket bottle
(with white plug, nut and bolt)

Launch stand

Air pump

Tubing
(clear, black and blue)

Foam wings

Double-sided tape

Storage Bag





NOTE

Water is needed to launch the rocket.
Adult assembly may be required.

ASSEMBLY

Unpack the set and gather all pieces. Start by adhering the foam wings onto the rocket launcher bottle. Use the double-sided tape to stick the wings round the neck of the bottle, and set aside. Attach the white plug to the base of the stand using the nut and bolt. Insert the bolt from the smallest end of the plug through one of the holes, then feed the bolt through the middle slot of the stand. Tighten the nut, ensuring the other hole is visible through the slot.

Next, connect the clear tubing to one end of the thin blue tube, until about 1cm of the blue tube appears through the clear tubing. Then insert the other end of the blue tube into the white plug on the launch stand, feeding through the bottom of the stand. Ensure the hole on the plug lines up with the slot on the base of the stand, so the tube is inserted easily.

Then connect the open end of the clear tubing to the end of the black tubing with the pump connection. The pump connection will have 3 inserts, connect to the black insert with the cone-like shape. Screw the connection into the slot with the clip, then fold the clip to lock into place.

Insert the other end of the black tubing to the base of the air pump, by screwing it into place. Ensure all parts are tightly connected and standing upright. Check for any kinks in the tubing and uncoil if required. If any parts are loose or falling off, use some tape or a zip tie to secure. The rocket launcher is now ready to use!

FIND A LAUNCH SPACE

Always launch outdoors in a wide, open space away from people, pets, buildings, trees, power lines, and vehicles.

Keep a safe distance, stand at least 5 metres away from the rocket during pressurisation and launch.

FILL THE ROCKET

Pour some water into the rocket bottle. Start with water filled to about one-third of the bottle. Adjust the ratio in later experiments to test performance.

Use only safe, non-toxic liquids such as water. Never use chemicals, carbonated drinks, or flammable substances.

ATTACH THE ROCKET TO THE STAND

Flip the stand upside down and carefully insert the blue tube attached to the white plug into the opening of the bottle. Press the plug into the opening until it is snug, and water does not leak. Flip back and ensure the rocket is vertical and stable.

Place the stand on the ground and extend the tubing out. Place the pump on the ground at the end of the tubing, at a safe distance from the launch stand.

Do not aim the rocket at people, animals, or fragile objects.

BUILD PRESSURE

Now it's time to build pressure into the bottle by using the pump. Unfold the metal foot rest on the bottom of the pump, and place one foot on the rest to stabilise the pump.

Use your hand to pull the pump up using the handle, then back down. Repeat to continue pumping air into the system. There may be resistance as pressure increases.

Stand clear of the rocket while pumping. Never lean over or stand above the rocket while pressurising. Sudden launches can occur!

LAUNCH!

Once the internal pressure overcomes the seal, the rocket will launch skyward! Watch it soar and take note of how high the rocket flew based on the amount of water used.

Keep repeating and experiment with different liquid weights to test flight performance. Record each flight and see which launch reaches the highest altitude.

Stay alert of the rocket's descent and move clear of the landing zone to avoid being struck. Allow time between launches to safely depressurise and inspect parts for wear or damage. Do not leave the launcher pressurised or unattended.



LAUNCH SAFETY

Only launch outdoors in a large, open area clear of people, animals, trees, power lines, and fragile objects. A wide, grassy field is ideal.

Maintain a safety perimeter of at least 5 metres around the rocket during setup, pumping, and launch.

Do not lean over or stand directly above the rocket at any time, especially while building pressure with the air pump. The rocket may launch unexpectedly with force.

Stand well clear of the launch area and never approach the rocket until it has safely landed.

Stay alert during re-entry. After launch, watch the rocket's descent and move clear of the landing zone to avoid being struck.

Allow time between launches to safely depressurise and inspect parts for wear or damage.

Do not leave the launcher pressurised or unattended.

HANDLING & ASSEMBLY

Adult supervision is recommended at all times, especially during assembly and launch.

Use only safe, non-toxic liquids such as water. Do not use carbonated, chemical, hot, or flammable liquids under any circumstances.

Inspect all parts before each use for cracks or wear. Replace any damaged components to prevent malfunction.

Rinse and dry all components after use to prevent build up or mould.

IN CASE OF AN ACCIDENT

If someone is struck by the rocket, assess the injury immediately. In case of head, eye, or neck impact, or if there is any bleeding, dizziness, or pain, seek medical attention.

Do not relaunch until all parts are checked and any injuries have been addressed.

DISCLAIMER

This product is intended for educational and recreational use under proper supervision. Ultimatum Pty Ltd is not responsible for any injuries, damages, or accidents resulting from misuse, modification, or failure to follow safety instructions. Always use the rocket launcher as directed, and ensure launches are conducted in a safe, open environment with adequate supervision.

WARNING

This product is not suitable for children under 36 months due to the presence of small parts which may present a choking hazard. Children must be under strict adult supervision when using this product. Read full usage instructions enclosed before assembling. Product may vary from image shown.

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