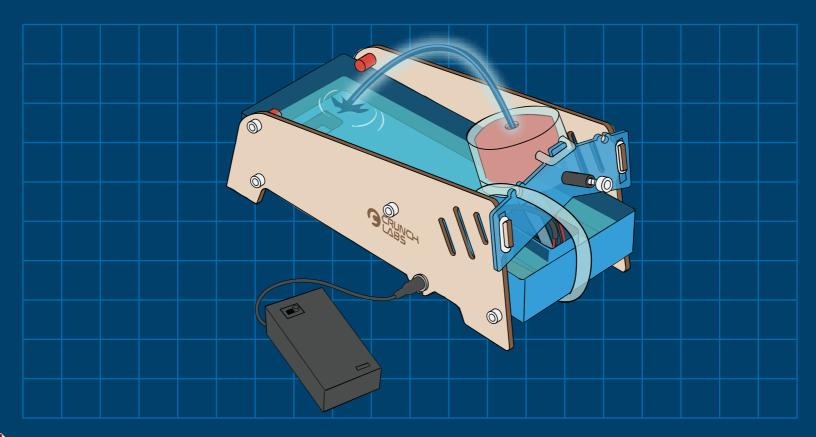


LAMINAR FOUNTAIN





NEW VIDEO UNLOCKED

BUILD ALONG & LEARN WITH MARK ROBER



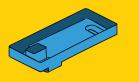


CRUNCHLABS.COM/FLOW

PARTS



wood pieces



water tray



fountain parts



standoffs



motor



acrylic wall



barrel jack connector



LED light



o-rings



sponge



bolts



large o-ring



battery pack



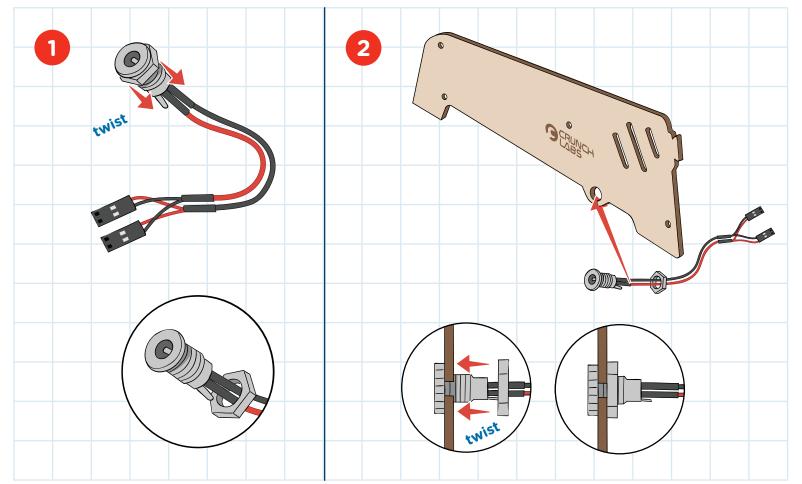
tubes

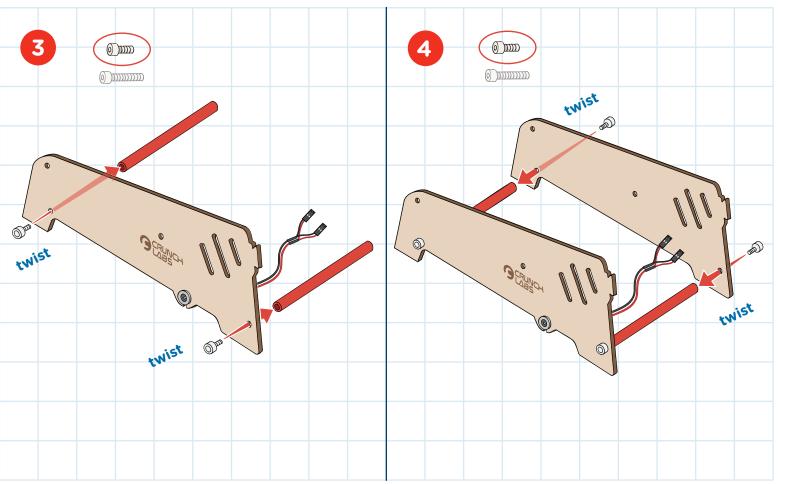


ball

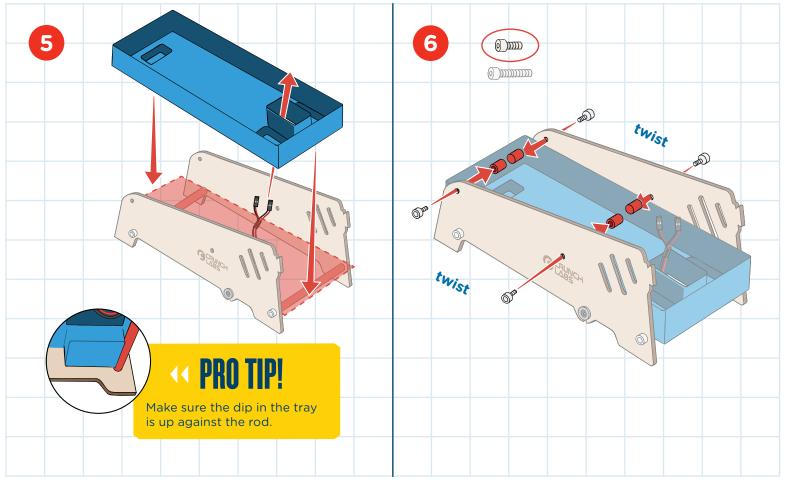
For missing and replacement parts, visit "My Account" at crunchlabs.com and we'll ship them to you for free.

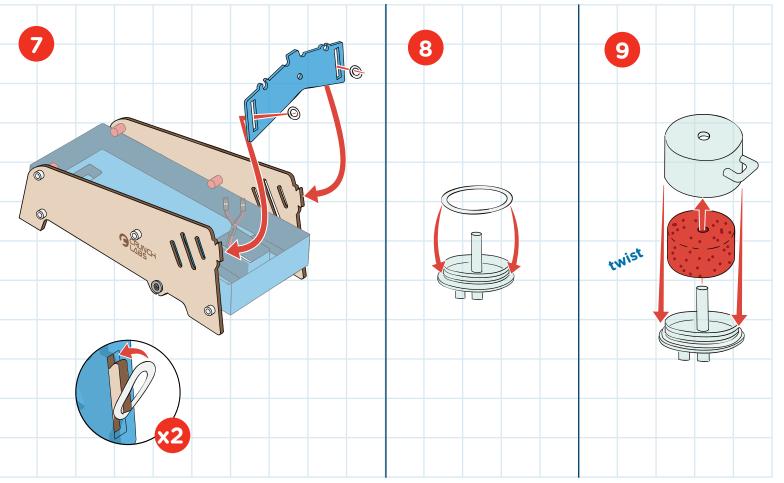






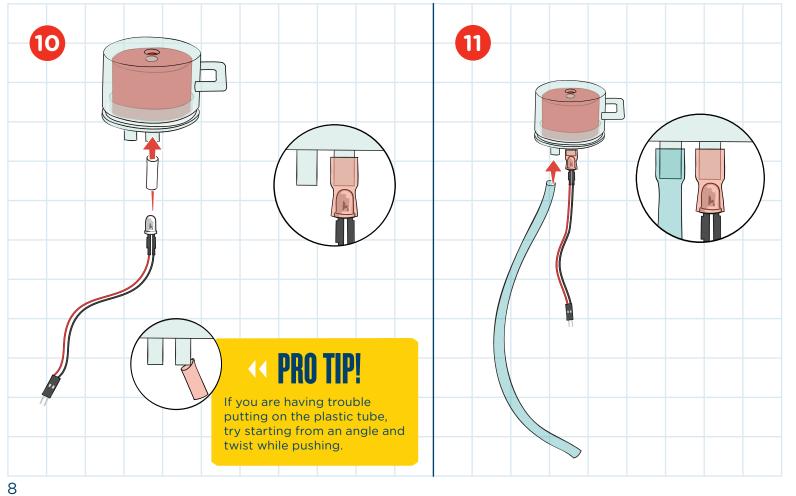
BUILD

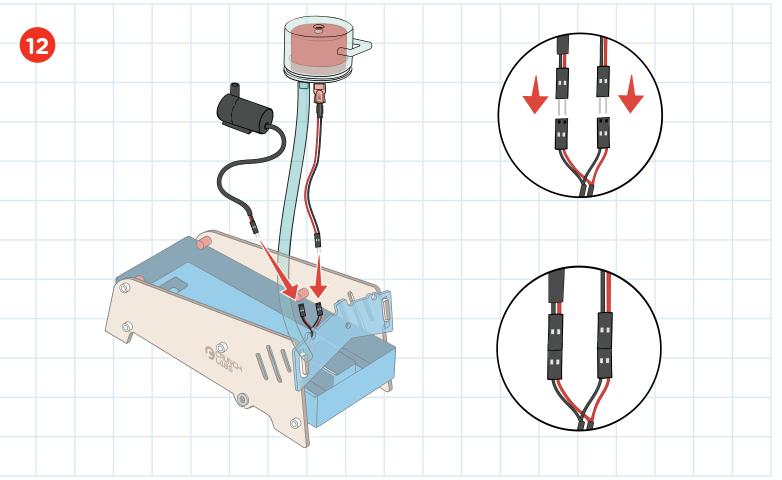




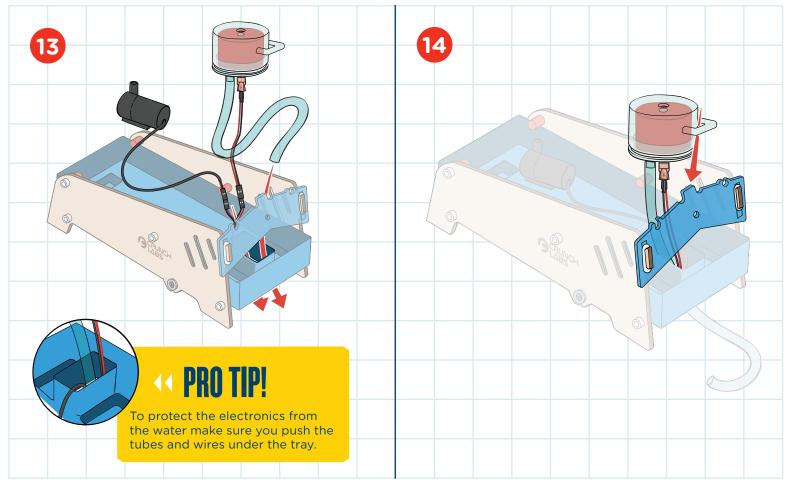
6

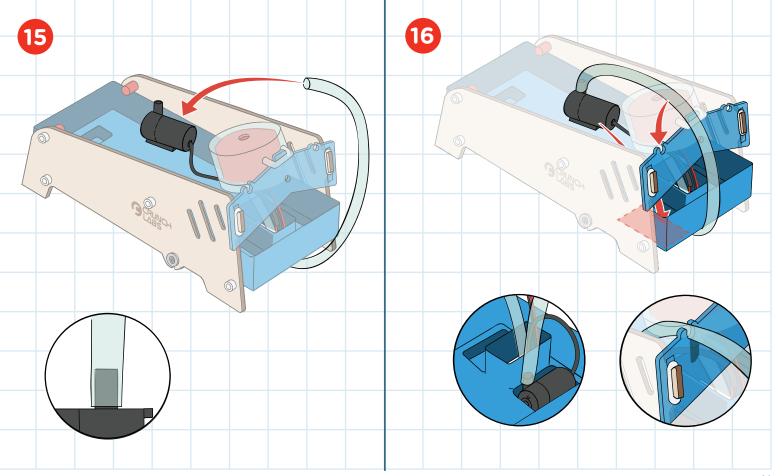
BUILD



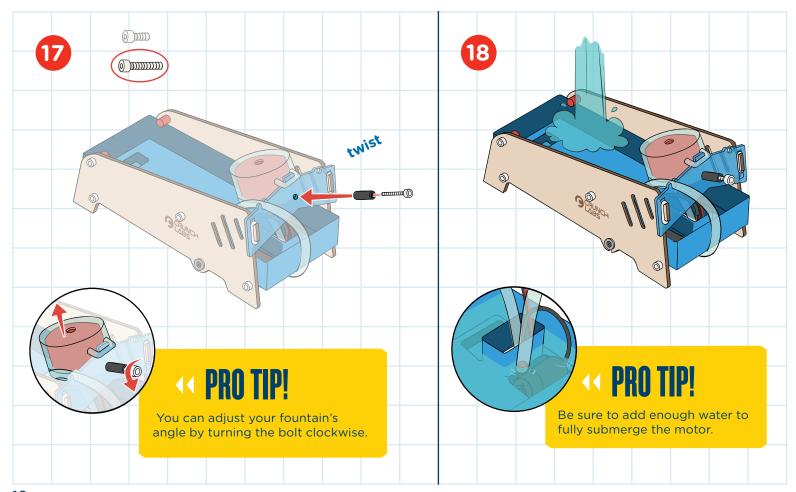


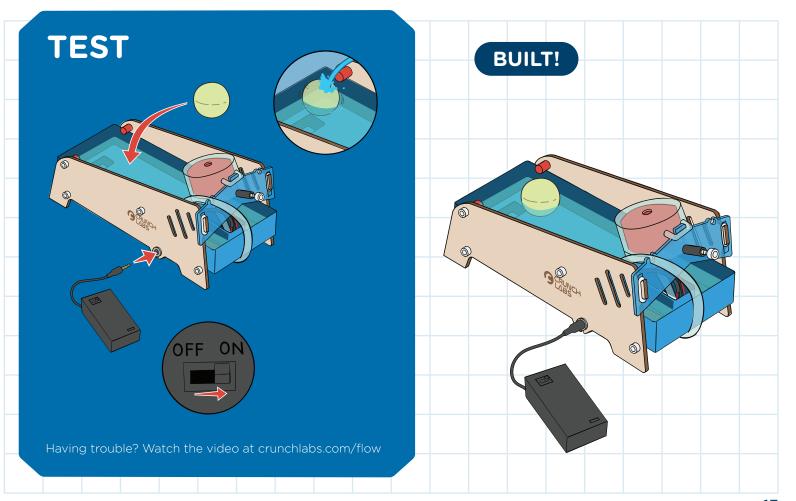






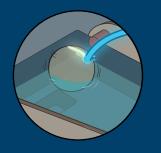
10





12

PLAY



SPIN THE BALL

Spin the glowing ball in different directions.



WATER BALL

Capture the ball in the water stream and steer it around.



BREAK THE STREAM

Break the water stream with your finger to create "tracers".

Laminar flow occurs when particles of the fluid follow smooth, parallel paths. In contrast, there is turbulent flow, which is characterized by mixing and swirling.

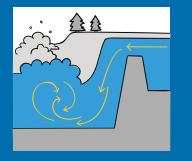
Laminar flow is when all of the fluid moves together in one direction.

Sometimes a stream of water will look like it's frozen in time – this is a tell-tale sign of laminar flow! It means that all the particles of water are following parallel paths, resulting in an effect that looks frozen in time. In addition to being quite mesmerizing, laminar flow is used in many delicate processes such as chemical reactions, or growing crystals for electronic components.

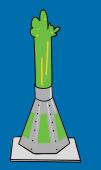


CONGRATULATIONS! You earned a gear badge for laminar flow

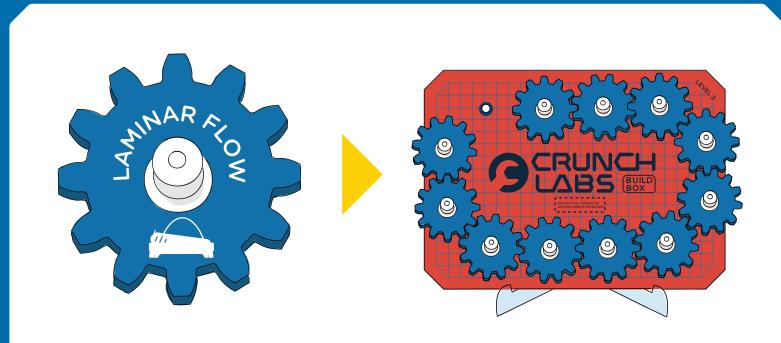
In engineering, the smooth and uniform properties of laminar flow can be leveraged to create pristine surfaces, or precise interactions. On the other hand, laminar flow can also be used artistically for unique effects.



Certain weir dams and fountains will have sections of water that look smooth and frozen in place. These streams of water can be lit up with various colors to produce cool effects!

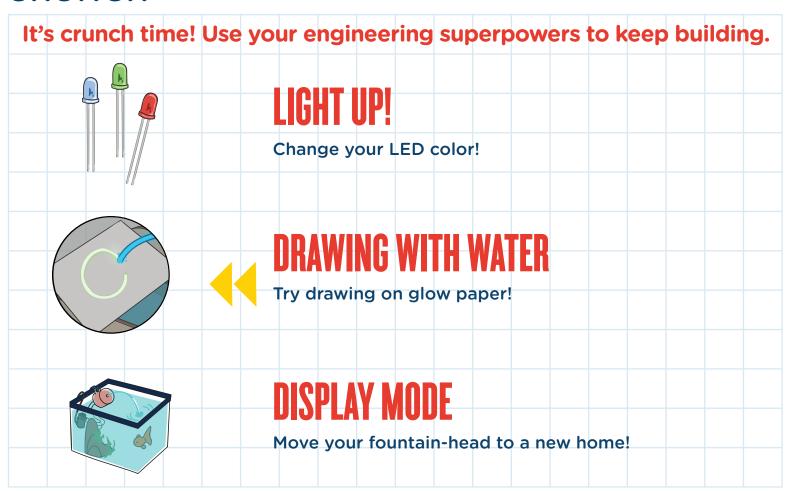


In Mark's Video "Devil's Toothpaste" he uses the correct nozzle that is needed for laminar flow.



Don't forget to add your gear badge to your gear train!

CRUNCH



SHOW OFF YOUR BUILD





Share your funniest moments & coolest mods! #crunchlabs @crunchlabs #f @ J





WARNING: Improper assembly can short circuit batteries.

BATTERY SAFETY

Remove exhausted batteries. Do not mix old & new batteries. Do not mix alkaline, standard (carbon-zinc), or rechargeable batteries. Do not recharge non-rechargeable batteries. If using rechargeable batteries, remove them from the toy before charging. Rechargeable batteries should be charged under adult supervision. Do not short-circuit supply terminals. Do not connect this toy to a power supply greater than two AA batteries. **How to remove batteries:** 1. Remove screw and lid from battery pack. 2. Remove batteries. **How to insert batteries:** 1. Remove screw and lid from battery pack. 2. Insert two new batteries into the battery pack with correct polarity (+ and -). 3. Replace lid and secure the screw on the battery pack.

SWEEPSTAKES

Each CrunchLabs build box contains the chance to WIN a trip to visit CrunchLabs with Mark Rober! Sadly, you are not a prize winner this time. Check inside your next build box for another chance to win.

Trip includes round trip transportation and two (2) night's hotel accommodations for a family of four (4). Approximate value: \$4,500. NO PURCHASE NECESSARY. Open to legal U.S. residents, 18 years of age or older. Void where prohibited. For complete Official Rules, including promotion end date and information on how to obtain a free game ticket, visit www.crunchlabs.com/win.

This toy is intended for use by children over the age of eight years. These instructions contain important information, do not throw away.