REIGNITION

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SAVE THE WORLD ... ONE IDEA AT A TIME.

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VAN LENTE FOWLER BELLAIRE

HOWTOONS REIGNITION No.1

HOWTOONS created by *Dr. Saul Griffith, Nick Dragotta, & Joost Bonsen.*

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- **Coordinated by: HOWTOONS**

PLEASE NOTE: THE AUTHORS & PUBLISHER Recommend adult supervision on all projects!

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TRACE THE OUTLINE FOR THE MASK ON YOUR FACE!



CUIT AGAIN! **CAREFULLY** MAKE TWO SLITS IN EACH CORNER WITH A HOBBY KNIFE!



THREAD THE **STRAP** (USE PART OF A BIKE INNER TUBE, OR TIE RUBBER BANDS TOGETHER) THROUGH THE FOUR SLITS!





Blowguns are traditional weapons in many indigenous tribes throughout the world. The principles are simple:

END CAP

PVC PIPE MARSHMALLOW SHOOTER!

T-JOINT

PVC PIPE 1/2" DIA.

ELBOW

JOIN7

T-JOINT

25 INCHES OF 1/2" INTERNAL DIAMETER PVC PIPE 2 ELBOW JOINTS 2 END CAPS 2 T-JOINTS

REVENGE!

TUCKER

1 *3*"

> END CAP

ELBOW JO<u>INT</u>

| ← 3" → | PVC PIPE 1/2" DIA.

BLOW AS FAST AND AS HARD AS POSSIBLE TO WATCH THAT 'MALLOW GO!

MATERIALS:

The energy input comes from the muscles in your respiratory system. Energy (or momentum in this case) is transferred from the air being pushed out of your lungs to the marshmallow being pushed through the pipe.

How far the marshmallow will go will depend upon how much momentum you can give to the marshmallow before it exits the pipe. If there are leaks around the edge of the marshmallow, then your precious breath will be wasted as it leaks past the projectile.

With their fine coating of powdered sugar, marshmallows have low friction, so energy isn't lost sliding against the tube!

If the pipe is too short you won't have enough time to impart momentum. If the pipe is too long, you won't have enough air in your lungs to continue to accelerate the marshmallow.

Experiment with the `optimum' length of pipe for your lungs and style!











































