

# Copyrighted Material

### CRAFT CUBES

Cubes with holes and dowels of many varieties can be purchased at www.CraftParts.com.

#### CRAFT STICKS

Find crafting sticks at craft or dollar stores.

Available at crafting, hardware, or department stores. I recommend buying the glue sticks online or at dollar stores to save money.

## LEDS AND 3 VOLT COIN CELL BATTERIES

Purchase these at electronics supply stores or through online vendors.

### LONG RUBBER BANDS

These are available by the box through office supply stores.

#### PAINT STIRRERS

Paint stirrers are available at hardware stores, sometimes for free if you ask nicely. You can also purchase them online. I bought boxes of 100 for this book for about \$20 USD.

#### PLASTIC SYRINGES

Pharmacists may give a few to you for free if you're a regular customer, or if you ask for some for a "science project." Otherwise you can buy them online. Search for "10 ml luer slip plastic syringe."

#### **PROPELLERS**

Propellers for rubber-band helicopters and propeller-powered cars can be purchased at www.Kelvin.com. Search for "nose hook propeller."

VINYL TUBING WITH W" (3 MM) INNER DIAMETER
This tubing is available at aquarium supply stores, hardware stores, or online.

# MATERIAL SOURCES

The materials used in this book are inexpensive and easy to come by. Materials not listed here can most likely be found at hardware and department stores or in your kitchen junk drawer. Note: Online vendors may not ship to all countries.





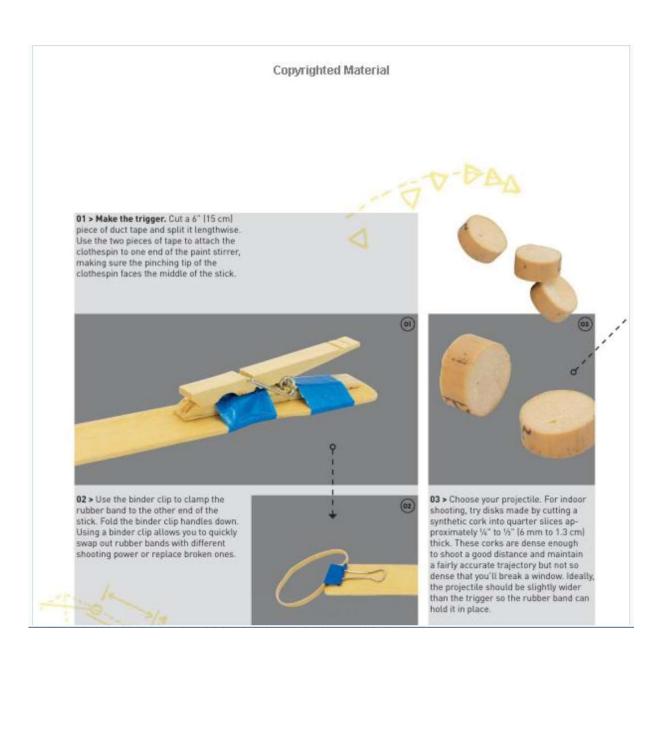
### TOOLS + MATERIALS

PVC PIPE CUTTER OR HACKSAW
42" (1 M 6.5 CM) OF ½" (1.3 CM)
SCHEDULE 40 PVC PIPE
TWO ½" (1.3 CM) PVC ELBOW
CONNECTORS
TWO ½" (1.3 CM) PVC TEE
CONNECTORS
TWO ½" (1.3 CM) PVC END CAPS
[OPTIONAL]

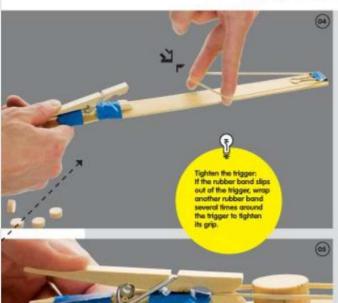
PVC PRIMER
PVC CEMENT
BLACK SPRAY PAINT (OPTIONAL)
4 CABLE TIES
TWO 7" (18 CM) RUBBER BANDS
CARDBOARD TUBE
DUCT TAPE
LARGE BINDER CLIP
2 LARGE CRAFT STICKS
SAFETY GLASSES

PVC PIPE	Hacksaw or another
CUTTER	type of saw
COTTER	type or saw
7" (18 cm)	A chain of shorter
RUBBER	rubber bands
BANDS	
CARDBOARD	Any scrap of cardboard
TUBE	
LARGE	Any rigid piece of wood
CRAFT	or plastic of a similar size
STICKS	550 (SSEE) (S. A. M. C. A. C. M. C.





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04 > You're ready to shoot! Squeeze the trigger open with one hand. Use two fingers from your other hand to stretch the rubber band into the open trigger. The rubber band should remain stretched taut when you clamp the trigger onto it.

05 > Wedge the projectile between the two sides of the rubber band directly in front of the trigger. This will prevent the projectile from falling out as you prepare your shot and ensures that the projectile receives the full force of the rubber band's elastic energy.

06 > Scan your surroundings for something fun to shoot at. Things that fall over, make noise, or shatter [so long as they're not of value to anyone!] are great choices. Avoid shooting point blank at hard surfaces—your projectile might ricochet back at you.



unsharpened pencils. To prevent the

pencil from veering to the side when

# NOW GET TINKERING

The Many-Thing Shoater can be attached to almost any flat and rigid surface. Try turning boring objects, like a binder or instruction manual, into an improvised firearm.