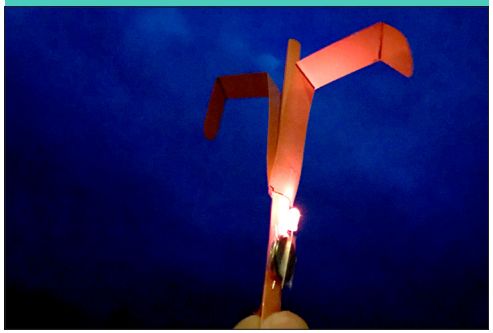
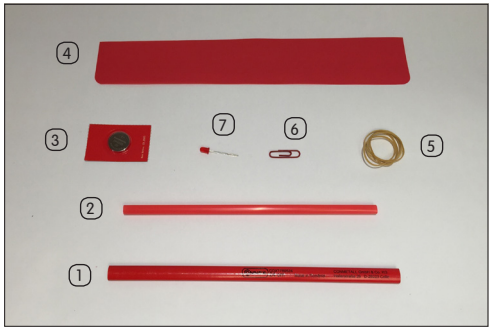
FIREFLY



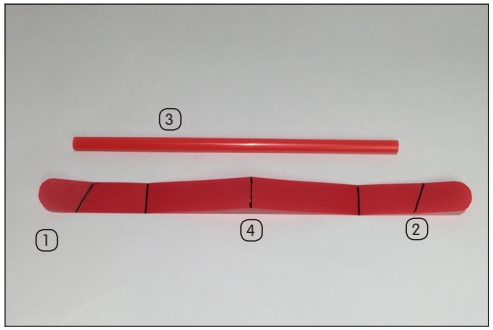
Have fun while launching a firefly into the darkness of the night!

Tools and materials



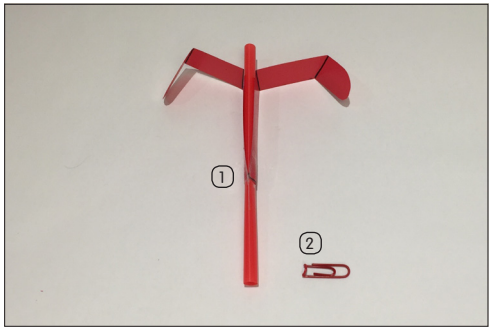
1. Stick to use as a launcher
2. Plastic straw (large)
3. Flat Lithium 3V battery
4. Plastic foil
5. Rubber bands
6. Paperclip
7. LED

Step 1 – Wings and body



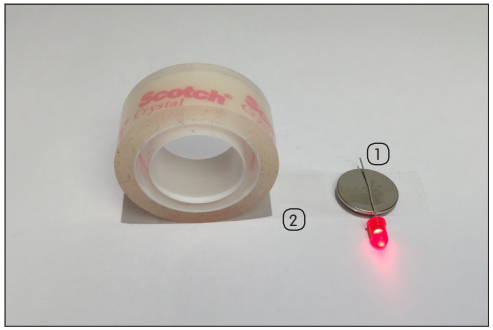
1. Cut a small long rectangle of plastic foil: 2cm x 28cm
2. The ends of the wings are folded under at a slight 22° angle
3. Flatten the straw
4. Cut a small slot on the centerline of the foil so the straw can pass through. Be careful not to cut the foil into two pieces

Step 2 – Assemble firefly



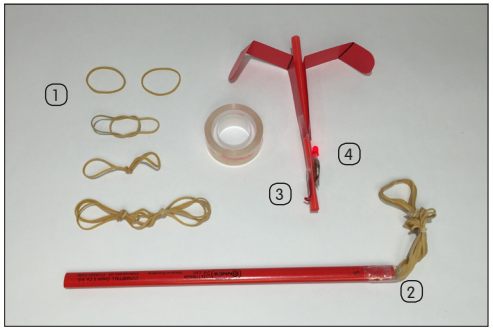
1. Here the straw slides through the wings
   Tape here the wings onto the straw
2. Bend the nose of a paperclip, it will serve as a hook to hold the rubber band to launch the firefly

Step 3 – Assemble LED



1. Place a LED with the longest leg at the +side of the battery
2. Tape the LED onto the battery

Step 4 – Assemble launcher



1. You can make a strong rubber band for launching by putting multiple small rubber bands together
2. Tape the rubber band to the launcher stick
3. Tape the paperclip onto the straw
4. Tape the battery with LED onto the straw

Step 5 – Launch

1. Go outside at nightfall
2. Launch the firefly high into the air
3. Watch how it comes down like a helicopter
4. Enjoy the maker-magic!

Notes