

Houston... We have a problem...

Resources Required:

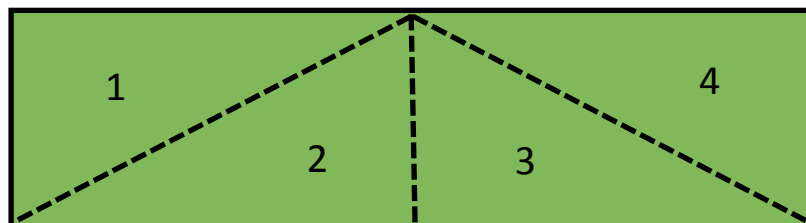
- Card
- Paperclip
- Masking tape
- Straw
- Catapult
- Scissors

Important Safety Instructions:

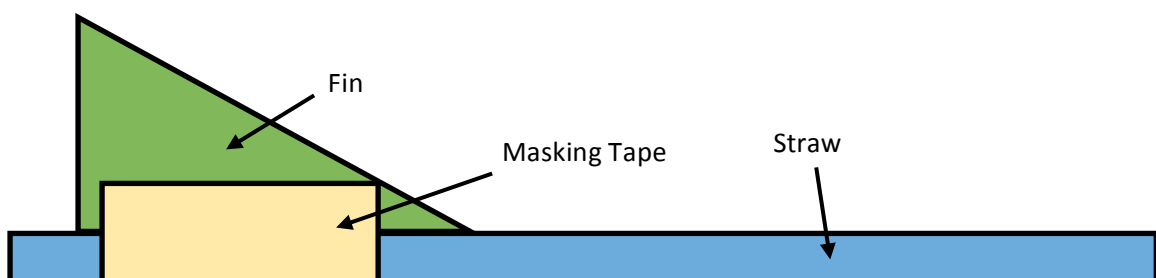
- **Never fire the rockets directly at another person, they can travel very fast and seriously hurt people.**

Build Instructions:

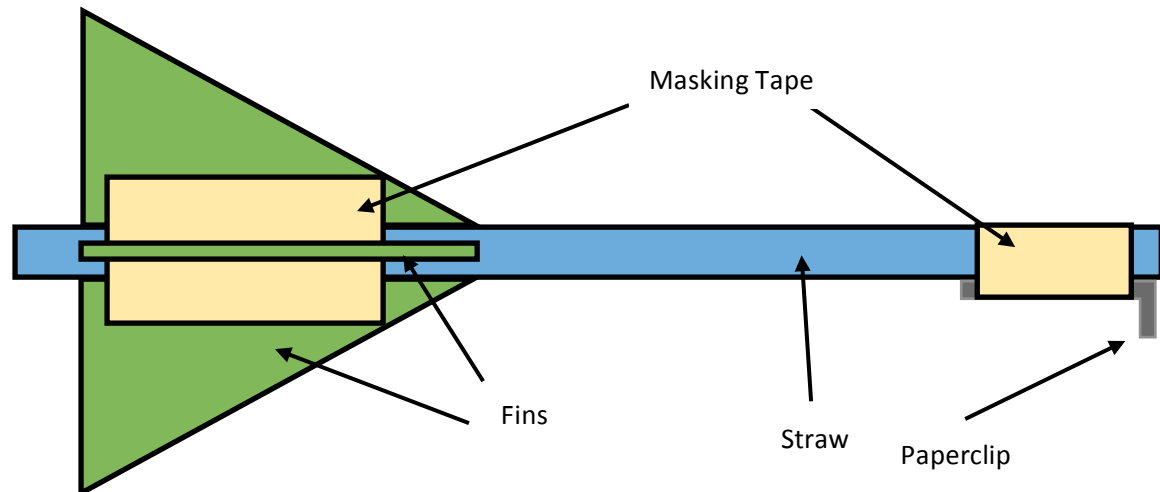
1. Begin by designing your fins. You can make them as big or small, long or wide as you like but try to think about which design would be best (as you make the fins bigger, drag will increase. As you make the fins smaller, the rocket will become more unstable).
2. Cut your 4 fins from a single rectangular strip to ensure they are all the same size as shown below:



3. Attach fins to straw (at the end with the bending bit) using masking tape, placing the back of the fin about 2cm from the end of the straw:



4. Stick both sides with masking tape to ensure the fin is properly secured and won't be able to move around during flight.
5. Repeat steps 3 and 4 until all four fins are attached. Check that the fins are aligned correctly and equally spaced.
6. Attached the modified paper clip to the front of the straw using masking tape with the hooked part at the front facing out. Make sure you tightly wind the masking tape around the paperclip and straw:



7. Have a final check that the fins are in the correct place and that everything is securely fastened. Now your rocket is ready to be fired!!!