DIYs » Stem Activities » Marvelous Mechanics Motion » Age 6 - 8 » Making Paper Rockets **** **Making Paper Rockets** Stem Activities Ages: 6-8

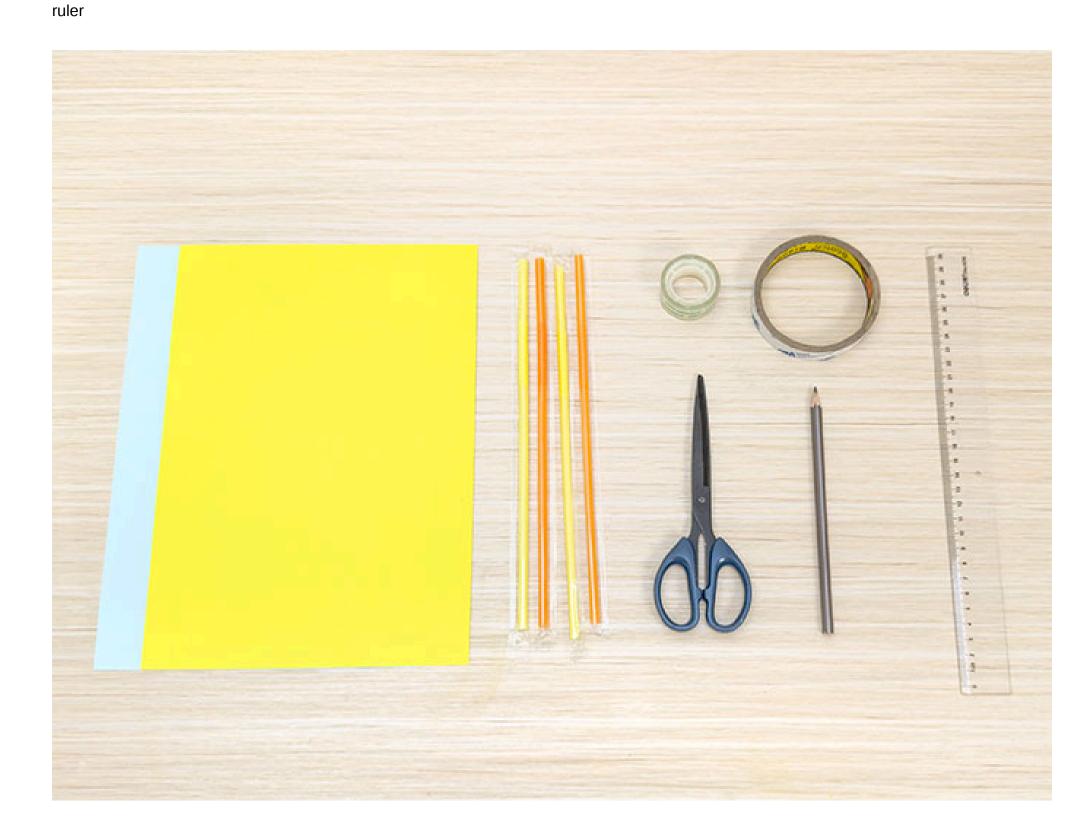
Have you ever played with toy rockets or watched real rocket launches on television? In this project, you'll create simple rockets using paper, tape, and straws, and explore how fin design affects how far your rocket can fly.

Grownup needed

Less than 30

Materials Needed

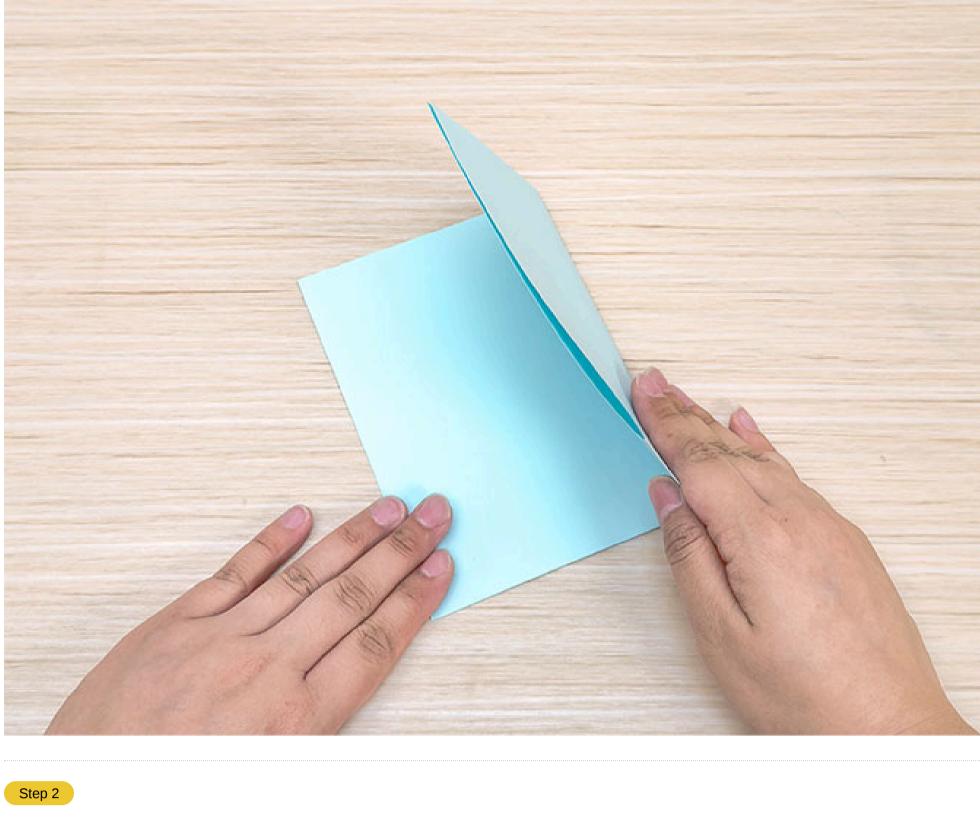
Coloured card paper drinking straws scissors clear tape double-sided tape pencil

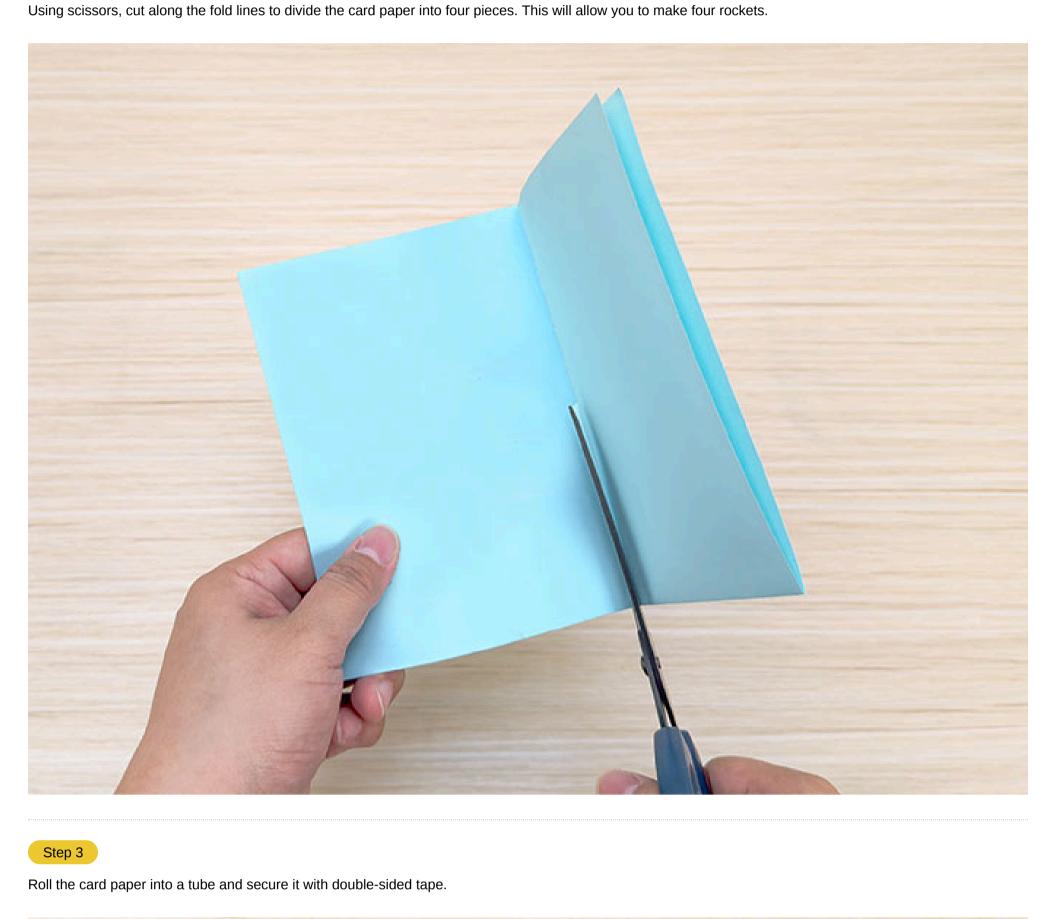


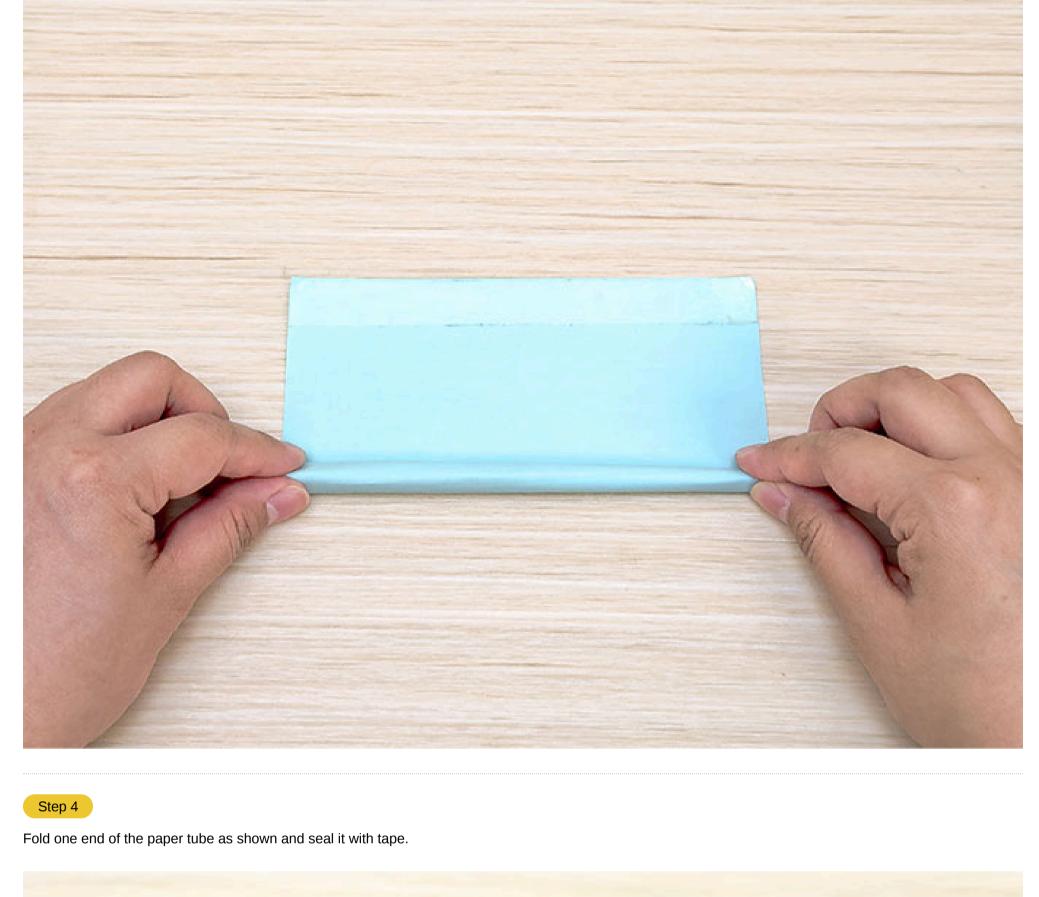
Step 1

Step-by-step tutorial

Fold the card paper in half twice.

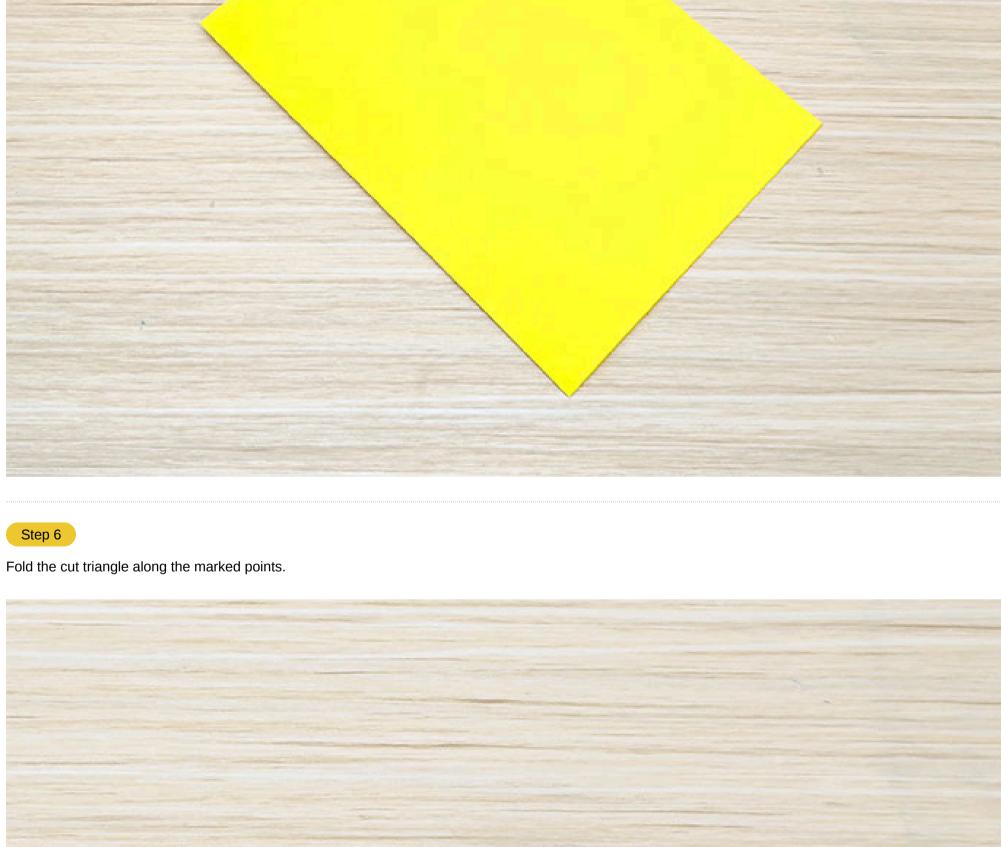




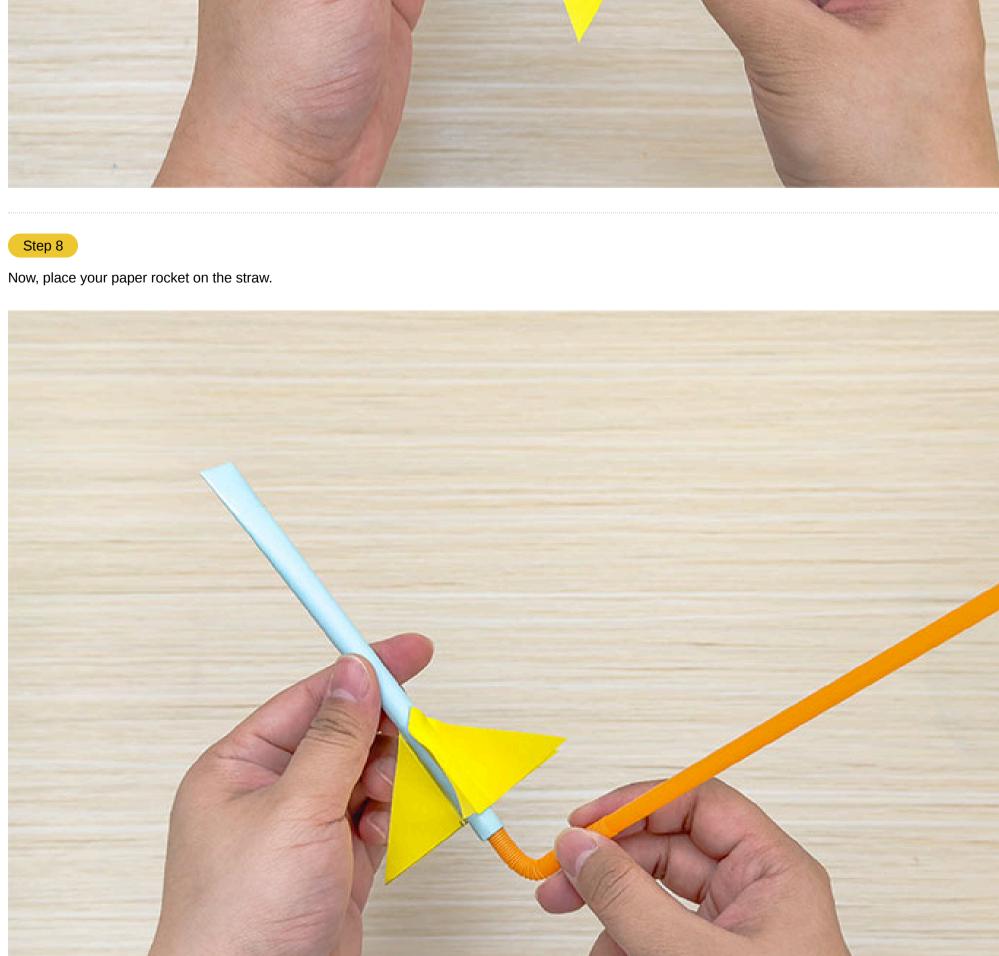


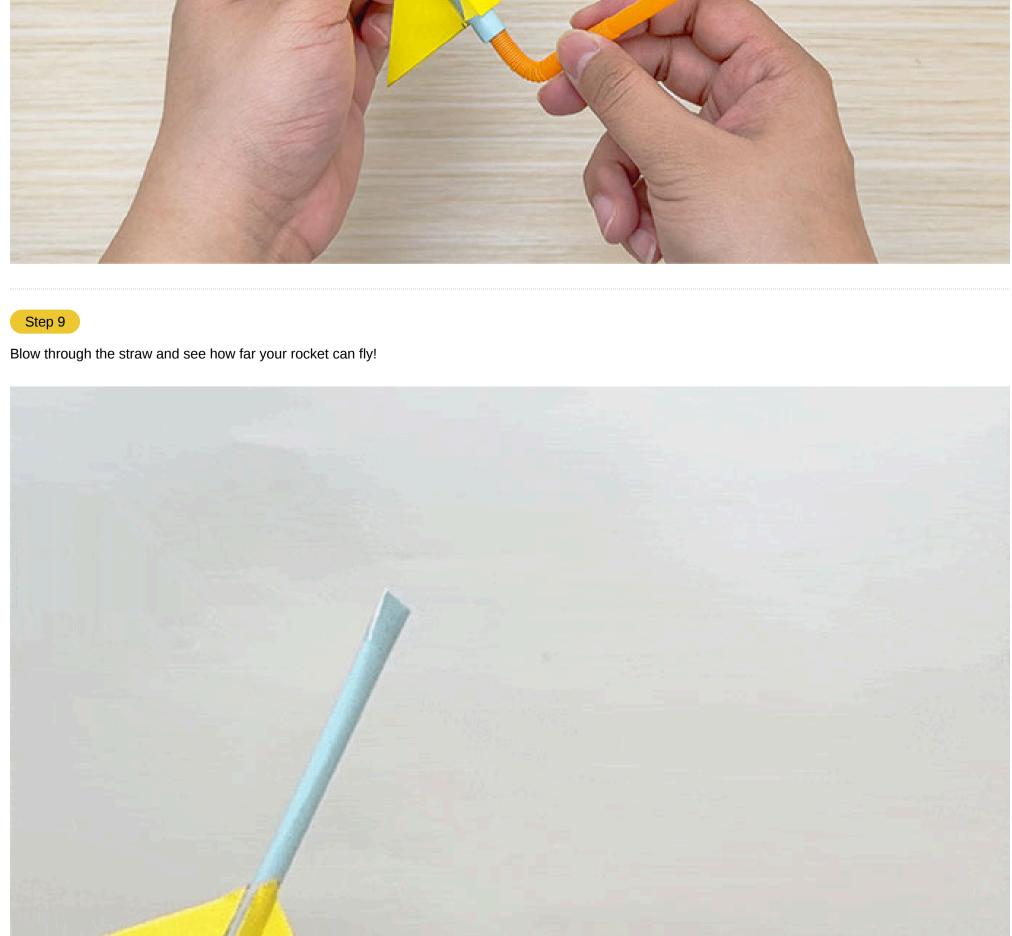


8cm









The Science Behind It: Try making a rocket without fins and compare it with a rocket that has fins. Make sure to test them under the same conditions, such as the same location and blowing force. Compare the flight distances of both rockets - what do you notice? A rocket without fins might briefly fly straight when first launched, but it will quickly lose control due to lack of stability, potentially rolling or veering off course. In contrast, a rocket with fins should fly further and maintain a straighter path because it's more stable.

flight distance. Which fin design makes your rocket fly the furthest?

You can also try designing fins of different shapes and sizes and observe how these designs affect your rocket's stability and