

USE A PAIR OF PLIERS

Pliers are an important tool for your maintenance tool kit. The mechanical advantage they offer is allowing you to manipulate an object like you would with your thumb and fore finger, but with much greater strength. What you'll need for this challenge:

FLIP OVER FOR YOUR NEXT CHALLENGE



EARN THIS NUGGET

Complete a wire bend that conforms well to the included pattern, and get your parents approval.

So the essence of a pair of pliers is that they are a handled tool that allow you to hold and manipulate an object with greater mechanical advantage. A mechanical advantage that is created by the physics of leverage and the addition of a hard steel jaw with aggressive gripping on it. This effectively multiplies the strength of your fingers many times over.

The best way to get used to this, is a practical challenge. Safety first as always, it is easy to pinch yourself with a pair of pliers and that hurts like nobodies business.

- A 1" washer
- A piece of 18-gauge wire
- A pair of pliers

1. Starting with the center of the wire, neatly shape the wire around the 1" washer.

2. Next make five twists.

3. Now, attempt the triangle. Use the image as your template to make sure you are conforming to the right size.

4. Next make the diamond shape after another series of five twists.

5. Finally, four twists and use the pliers to cut off the bottom neatly.



USE A PAIR OF PLIERS TEMPLATE

