
Demonstration-

Fundamentals in Orthodontic Wire Bending

Employing Bends in Everyday

Orthodontic Mechanics

Intermediate Course

Dr. Brad Williams
WILLIAMS *GP* ORTHODONTIC
SEMINARS

Fundamentals in Orthodontic Wire Bending

Employing Bends in Everyday Orthodontic Mechanics

Purpose:

- To develop wire bending skills

Instruments & Material Needed (Prior to Start of Class):

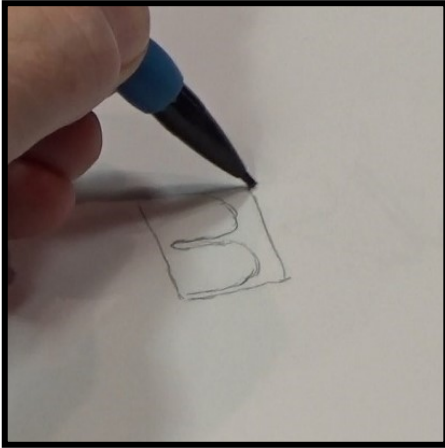
- Arch Marker
- Bird Beak Plier
- Heavy Duty Wire Cutter

Materials Provided:

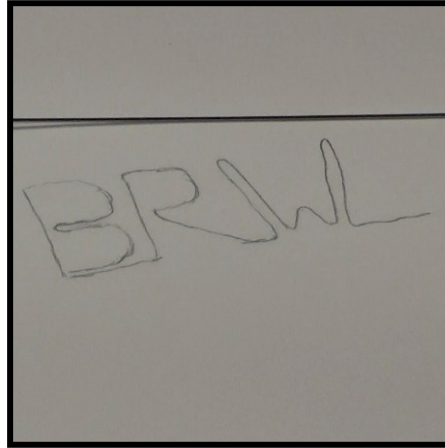
- .032 Stainless Steel Straight Wire

Directions:

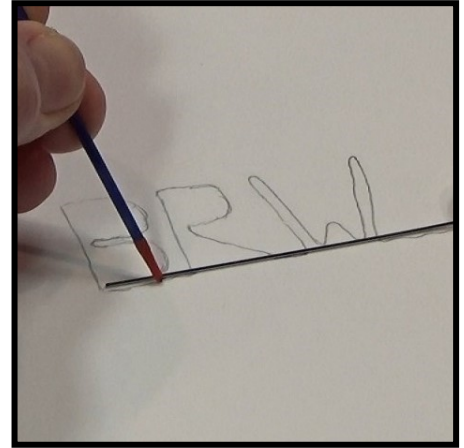
- In this exercise, the objective is to practice making multiple planned bends in a typical .032 Stainless Steel archwire (used in construction of many orthodontic appliances).
- “Plan your work and work your plan!”
- You will draw, on a piece of paper, your initials or name in the actual size and outline that you will then use as a template to guide you as you bend the wire to reflect your template design and bend your name.
- RULES: YOU CAN'T CROSS BACK OVER YOUR WIRE AND IT HAS TO LAY FLAT ON THE TABLE WHEN FINISHED! This will help you learn to control your plier and your bends.



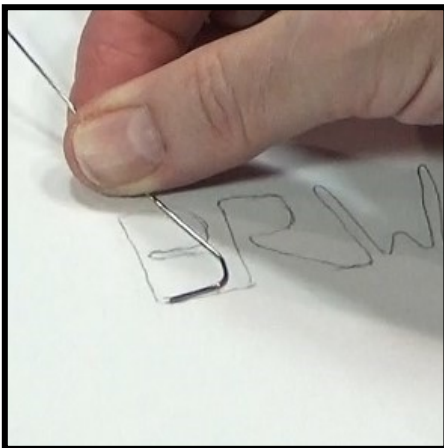
First, draw out your name or initials as a design for your wire bending exercise.



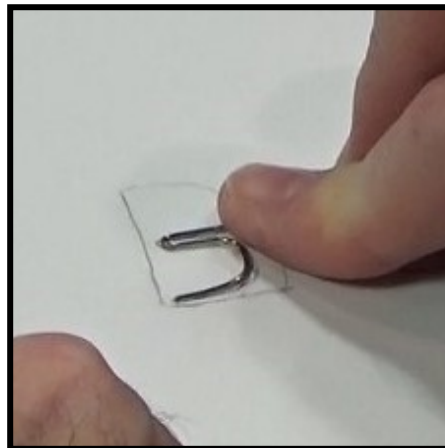
Make sure your design gives you round turns and bends that stay between 45° and 90° due to the difficulty in making really acute bends in heavy



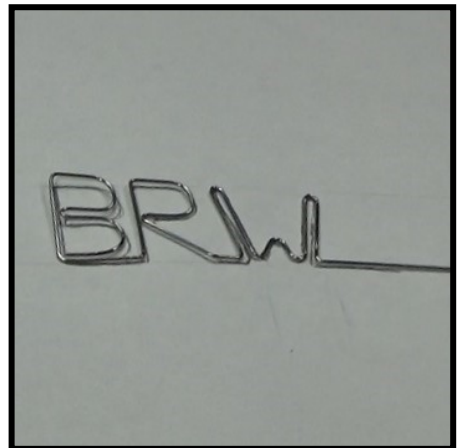
Using an Arch Marker, start marking where the curves or bends will take place.



Continue to contour the wire to match your drawing.



Place on the page to make sure you are staying in the same plane, (laying flat on the page) and to mark each bend and check the previous one.



At the end of the exercise, your wire should lay precisely over your template drawing.