Bell Work
Sheet Metal

Review Chapter 12 of the Modern Metalworking book
Sheet Metal
sheet metal –
large flat sheets of metal

How is sheet metal made?

a metal slab is run between rollers until a desired thickness is obtained
stetchout –
full size patter of an object laid flat
hem -
- metal is folded over on itself
- used to strengthen the lips of sheet metal
- prevents sharp edges
wired edge –
gives additional strength and rigidity to sheet metal sections
seam –
where 2 sheets come together
Cutting Sheet Metal:

1. Snips
   - metal cutting scissors
   - different shapes and sizes

2. Portable Power Shear
   - hand held electric snips
3. Foot Shear
- foot operated shear for larger sheets
4. Power Shear
   - automatic shear
5. Punches

- different shapes
Shaping Sheet Metal:
1. by hand
2. bar folder
- used for edges, seams, and hems edges
3. **box and pan break**

- can bend on all four sides
4. slip roll forming machine
   - bends curves and rolls metal into cylinders
5. rotary machine
- used for beads, and wire