

Metal Wire Working

Today's work consisted of working with wire. We used two different types of wire in two completely different ways. We used both aluminum wire and niobium wire. The aluminum wire was used for two projects. We used the malleability of the aluminum wire to twist and bend it to make pieces of art. The first project was to bend one piece of wire in such a way that it created a dragon fly shape. We added beads in order to make it look more like a dragon fly, by adding the artistic touch. The other project with the wire was to shape the wire in a way that it would surround a marble just enough that it would have a little space to roll around while not leaving much extra space. The reason the wire could be used was because it was very malleable, meaning it could be bent a lot and in different directions without snapping. I also used another piece of wire and bent that piece into the outline of a sailboat. I had to use a few extra pieces of wire to combine a few parts as I didn't use enough wire to make the outline perfect. I created the dragon fly with the colors that I did because I thought they were aesthetically pleasing. The boat I made because it involved bending the wire in many directions and I also have a love for sailing. Artists in modern times can use the wire to create art as they can get wire that has been used from most any computer company as computer companies use the wire to connect the pieces of the computer as the wire is a great conductor of electricity. The other project involved using a redox reaction to cause different colors to show up on niobium wire. The wire is placed in an electrolyte solution as the anode attached to an assortment series of 9V batteries. The oxidation layer formed colors on the metal wire and different voltages controlled by how many batteries are attached causes different colors.

