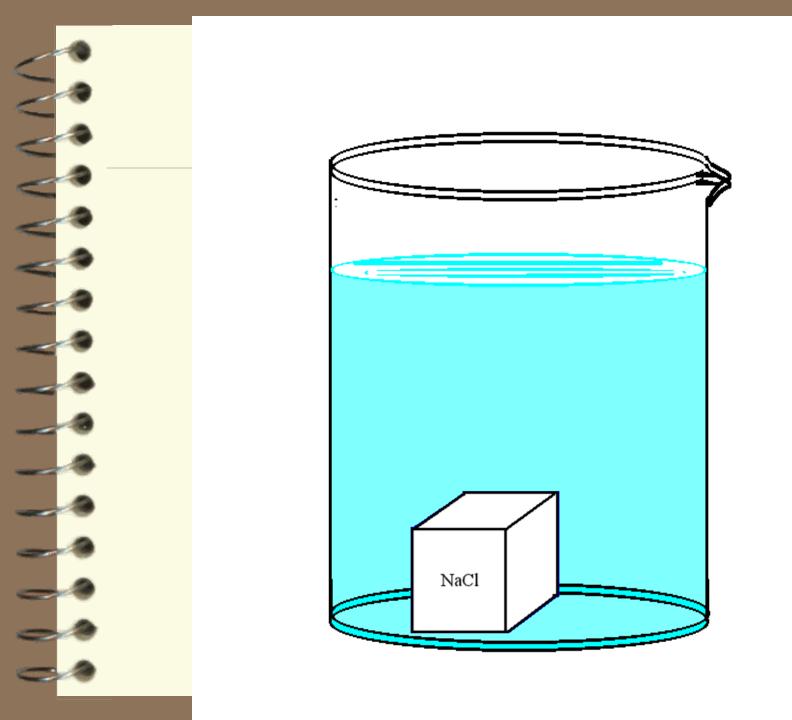
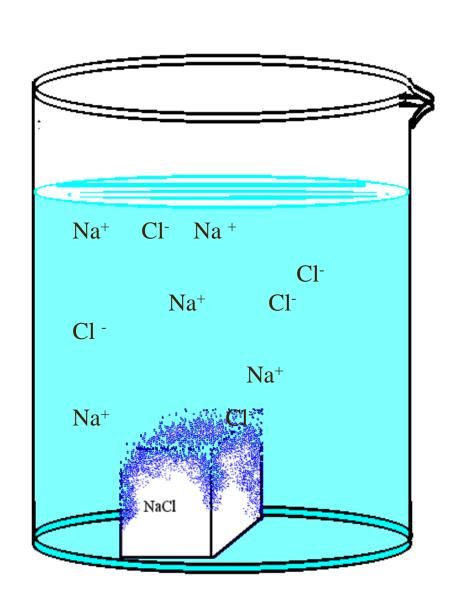
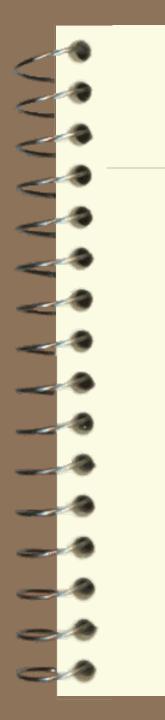
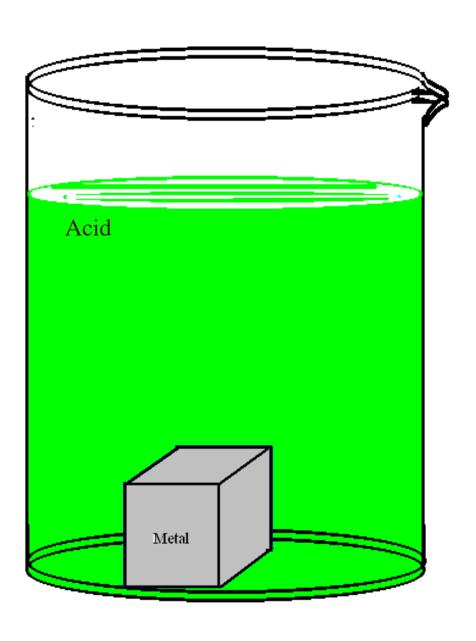
Metal Finishing

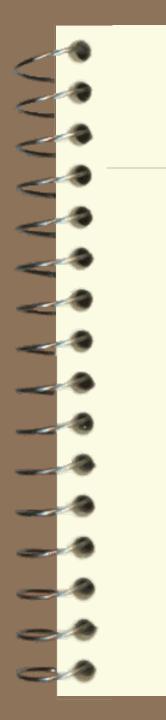
Removable Partial Denture frameworks

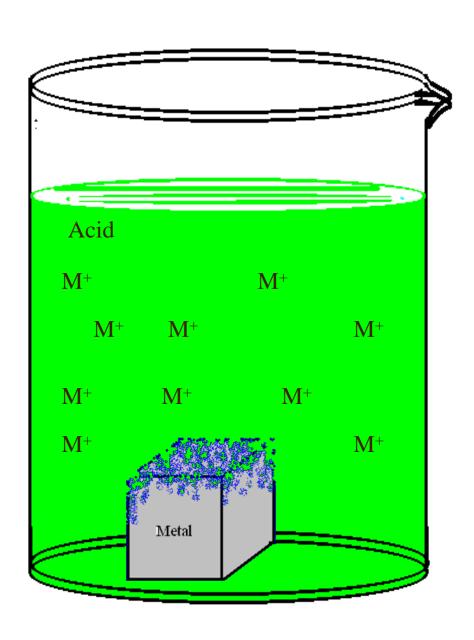


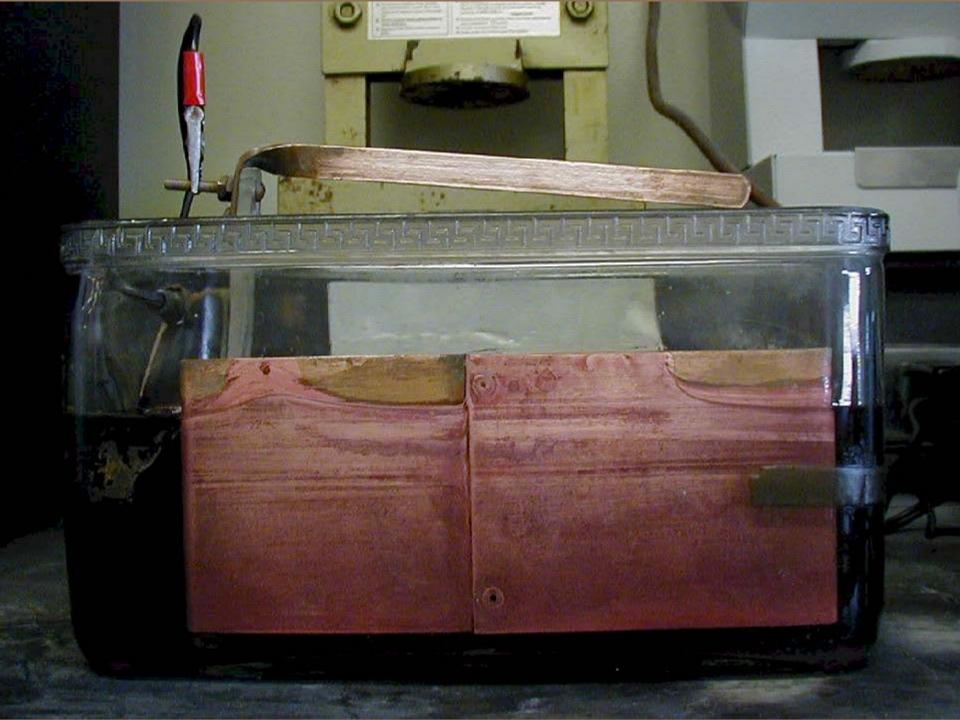






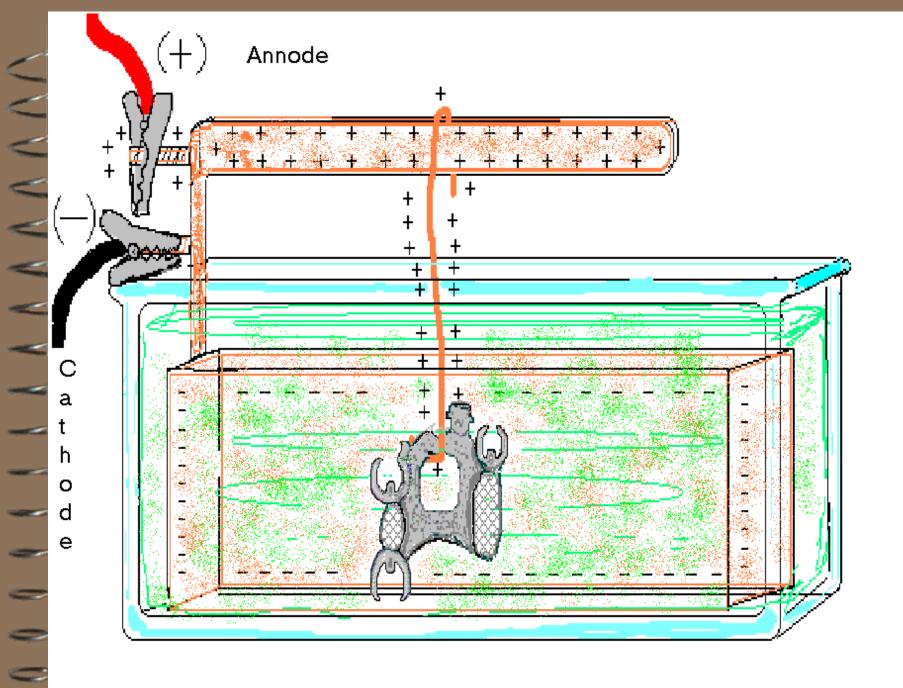












- Removes a layer of metal from the frameworks by an electrolytic deplating process
- <u>1</u> Uses an acid with electric current
- Temperature of the acid during use should be between **120°F-140°F**

48°C-60°C

- <u>4</u> Parts of the Electro polisher
 - $-\underline{a}$ Cathode clip
 - attached to a wire that originates from the negative (black) terminal

- $-\underline{b}$ Cathode assembly
 - 1 Attached to cathode clip
 - 2 Immersed in bowl of acid

- <u>4</u> Parts of the Electro polisher
 - $-\underline{c}$ Anode clip
 - 1 Attached to framework
 - 2 Mounted on a platform
 - 3 The wire originates from the (red) positive terminal

- <u>4</u> Parts of the Electro polisher
 - $-\underline{d}$ Control box
 - 1 Amperage switch
 - 2 Timer 6 minutes

SAFETY

- − 1 Keep solution covered when not in use
- 2 Use in well ventilated area
- 3 If solution contacts hands or clothing, wash off immediately

- (g) Electro polishing
 - -1 Prepare frameworks for Electro polishing
 - <u>a</u> Castings must be thoroughly sandblasted before Electro polishing
 - 1 After sandblasting, **DO NOT** touch castings with your hands
 - 2 Oils from the skin will contaminate the castings
 - <u>b</u> Rinse castings in water
 - <u>c</u> Dry castings thoroughly

- (g) Electro polishing
 - -2 Put on proper personal protective equipment:
 - -3 Procedure for Electro polishing
 - <u>a</u> Electro solution is heated to the working temperature of **120°F** to **140°F**
 - <u>b</u> Attach the casting to the **anode assembly**
 - <u>c</u> Attach the cathode clip to the **cathode assembly**

- (g) Electro polishing
 - -2 Put on proper personal protective equipment:
 - -3 Procedure for Electro polishing
 - <u>d</u> Insert attached casting into Electro polishing solution bowl (tip of anode clip should be immersed)

(g) Electro polishing

- <u>e</u> Turn on unit
 - − 1 Regulate the amperage switch to the proper amperage
 - » a Estimate 2 amps per square inch on both sides
 - » b For the average casting, set amperage for 6 amps, set the timer for 6 minutes

(g) Electro polishing

- <u>f</u> Remove casting from Electro-polishing solution
 - 1 Remove anode assembly with casting attached from Electro-polishing solution
 - 2 Dip casting and anode clip into bowl of sodium bicarbonate solution to neutralize Electro-polishing solution
 - 3 Allow casting to remain in solution one minute, to neutralize acid
 - 4 Dry off anode clip