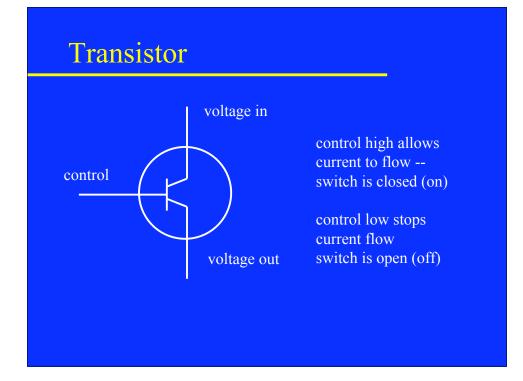
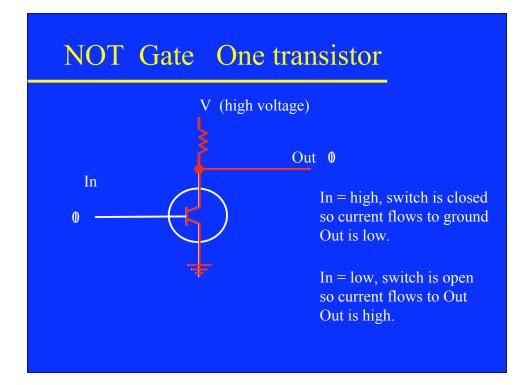
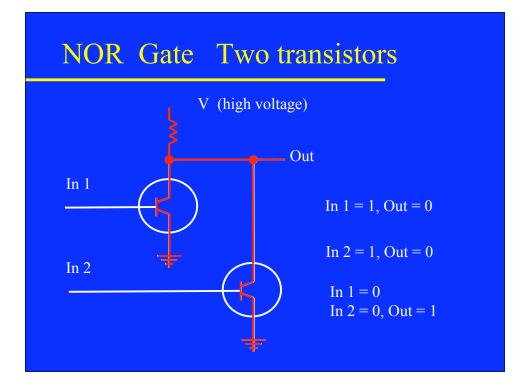
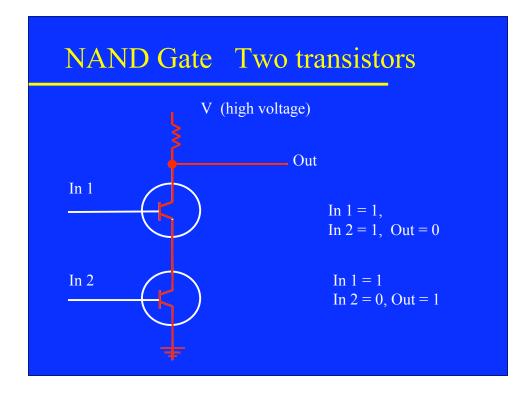
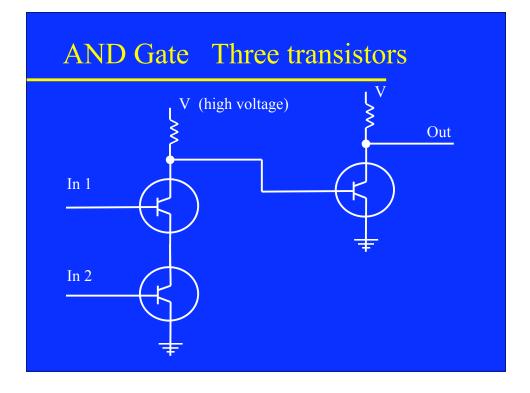
Transistors and Logic Circuits

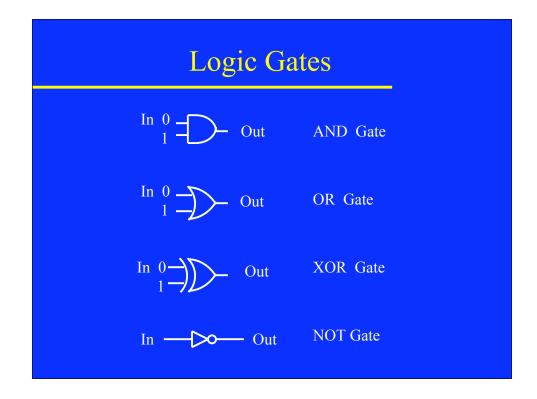


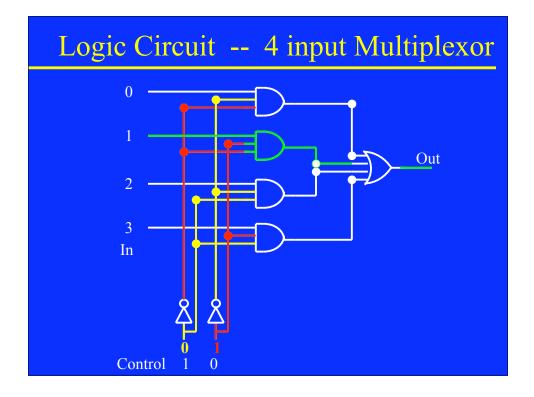


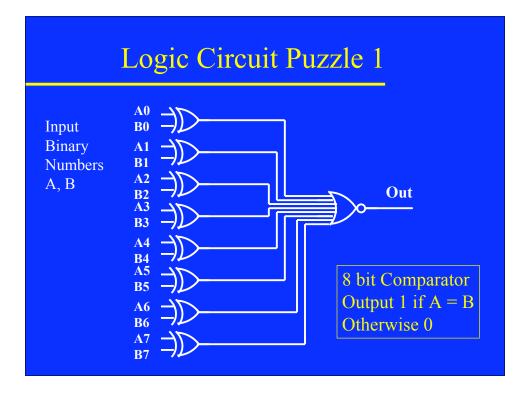


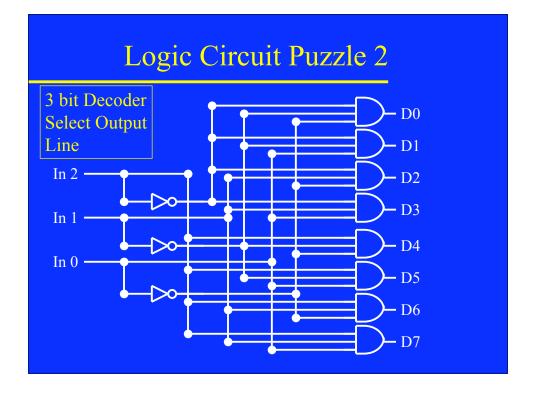








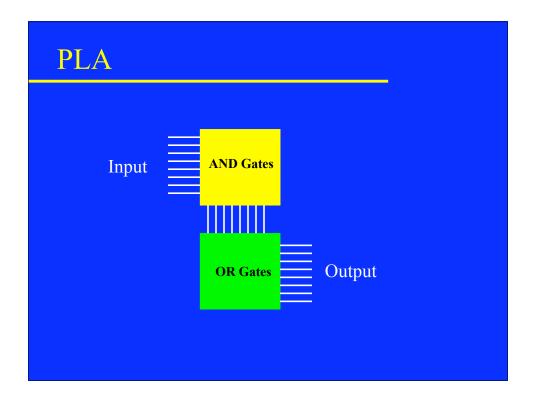


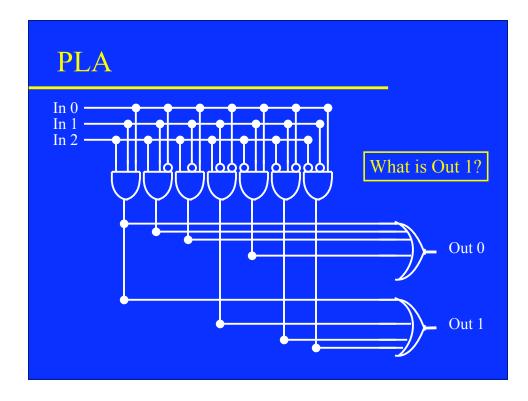


Programmable Logic Array

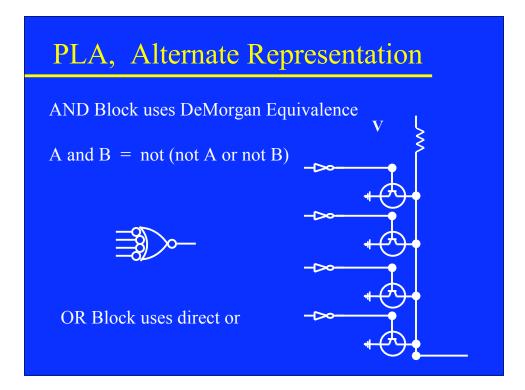
- Any Logic Truth Table can be implemented
- Uses block of AND gates followed by block of OR gates
- Programmable
 - once
 - many times
- Used for implementing different circuits

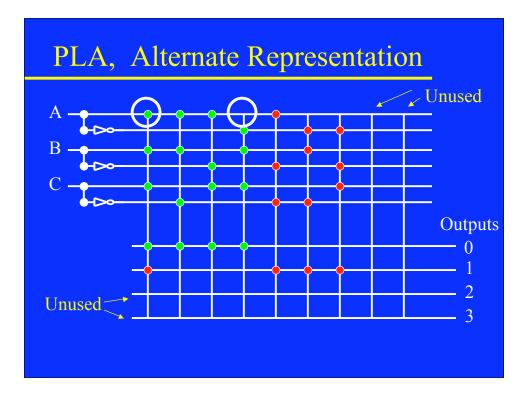
A	В	С						
e	xpre	ssion		Α	and	В	and	С
1	1	1	1	А	and	в	and	~C
1	1	0	1	А	and	~B	and	С
1	0	1	1					
1	0	0	0	~A	and	в	and	С
0	1	1	1					
0	1	0	0					
0	0	1	0					

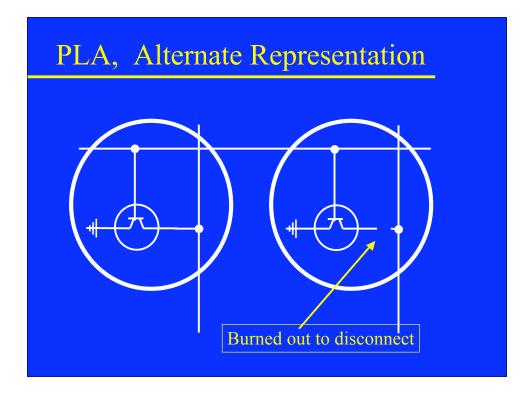




A	В	С	expression	n
1	1	1	1	A and B and C
1	1	0	0	Odd Parity
1	0	1	0	Ouurany
1	0	0	1	A and ~B and ~C
0	1	1	0	
0	1	0	1	~A and B and ~C
0	0	1	1	~A and ~B and C
0	0	0	0	







P	PLA	"]	Don't	Cares	11		
A	в	С	exp	А	в	С	exp
1	1	1	1 —	1	1	x	1
1	1	0	1 🦯				
1	0	1	1	1	0	1	1
1	0	0	0	1	0	0	0
0	1	1	1	0	1	1	1
0	1	0	0	0	1	0	0
0	0	1	0	0	0	1	0
0	0	0	0	0	0	0	0
			$\mathbf{x} = \mathbf{D}\mathbf{c}$	on't Care			

