Exercise 1 (Network Components)

For the given network components, mark the corresponding layers of the **hybrid** reference model.

In other words: Which layers (functionalities) do the single components implement?

	Hybrid reference model layer						
	1	2	3	4	5		
Component 1							
Component 2							
Component 3							
Component 4							
Component 5							
Component 6							
Component 7							
Component 8							
Component 9							
Component 10							
Component 11							
Component 12							
Component 13							
Component 14							
Component 15							
Component 16							
Component 17							
Component 18							
Component 19							
Component 20							
Component 21							
Component 22							

Content: All slide sets Page 1 of 2

Exercise 2 (Warm-up...)

For the network devices, protocols, transmission units, line codes and addressing schemes in the table, mark the corresponding layer of the **hybrid reference model**.

	Hybrid reference model layer					
	1	2	3	4	5	
4B5B						
Address Resolution Protocol (ARP)						
Bridge						
Congestion control						
CSMA/CA and CSMA/CD						
Cyclic Redundancy Check (CRC)						
Distance vector routing protocols						
Dynamic Host Configuration Protocol (DHCP)						
Ethernet						
File Transfer Protocol (FTP)						
Flow control						
Gateway						
Hub						
Hypertext Transfer Protocol (HTTP)						
ICMP						
Internet Protocol (IP)						
Link state routing protocols						
Logical addresses						
Manchester-Code						
Media access control						
Modem						
Secure Shell (SSH)						
Multiport Bridge						
Non-Return to Zero						
Open Shortest Path First (OSPF)						
Physical addresses						
Port numbers						
Reliable end-to-end data connection						
Repeater						
Router						
Routing Information Protocol (RIP)						
Spanning Tree Protocol (STP)						
Switch						
Telnet						
Transmission Control Protocol (TCP)						
User Datagram Protocol (UDP)						
Wireless LAN						

Content: All slide sets Page 2 of 2