

OSI Model Summary (Easy to Remember)

Layer No.	Layer Name	Primary Function	Data Unit	Devices/Examples	Key Protocols / Concepts
7	Application	Interface between user and network	Data	Computers, browsers, email clients	HTTP, HTTPS, FTP, DNS, SMTP, P2P
6	Presentation	Translates, compresses, encrypts data	Data	-	SSL/TLS, MIME, JPEG, MP3, ASCII
5	Session	Establishes, maintains, terminates sessions	Data	-	RPC, NetBIOS, PPTP, Session management
4	Transport	End-to-end delivery, reliability, segmentation	Segment	Gateways, firewalls	TCP, UDP, Port numbers, Flow control
3	Network	Routing, addressing, path selection	Packet	Routers	IP (v4/v6), ICMP, ARP, RARP, OSPF
2	Data Link	Error detection, framing between nodes	Frame	Switches, bridges	Ethernet, PPP, HDLC, MAC, ARP
1	Physical	Transmits raw bits via physical medium	Bits	Hubs, cables, NICs	Wi-Fi, Fiber, DSL, Bluetooth, RS-232

Mnemonics to Remember Layers:

Top → Bottom: "All People Seem To Need Data Processing"

Bottom → Top: "Please Do Not Throw Sausage Pizza Away"