Network by Analogy

Supposing that students are ordering goods sending to their school via Royal Mail,

- the school as a LAN,
- the department as each application process,
- each postman as a router,
- the college admin as a switch,
- each student as a host with MAC Address ...

Layer	•••	is equivalent to	Note
	World	WAN	
	School	LAN	
Арр	School address lookup	Domain Name System	<(.edu)name, IP addr>
Transport	Department	Process port number	<port ,="" ip="" no.=""></port>
	Type of delivery	Fast UDP [dst port] Secure TCP [src,dst <port &="" ip="">]</port>	[Demultiplex]
	Adjust sending rate	Flow Control Congestion Control	avoid student overflow avoid postman overflow
Network	Postman	Router	
	School IP	LAN IP (unique)	NAT IP (unique) v4: 32 ; v6: 128 bits <ip></ip>
	Apartment	Subnet of IP	111.111 .0.0/16
	Student uid	Host IP	IP Dynamic Config v4: DHCP; v6: SLAAC
	Porter	Address Resolution Protocol	<ip addr="" addr,="" mac=""></ip>
Link	Admin	Switch	
	Student's name	Host MAC Address	48 bits <mac></mac>
Physical	Delivery van	Copper, Glass, Fiber optic	
	Student	Host	sender / receiver host