CompTIA Network+ (N10-009) Quick Summary

Fast 3-5 minute refresh for the ideas, traps, and comparisons that show up most often.

Best for Ultra-fast memory refresh	Focus Definitions, shortcuts, and common traps	Use with Use with cheat sheet for deeper review

1. Must-know ideas

Routing	Routers move traffic between networks and stop broadcasts.
Switching	Switches forward frames by MAC and support VLAN segmentation.
Subnetting	Practice network ID, usable range, broadcast, and host count until it is automatic.
DNS/DHCP	DNS resolves names; DHCP assigns addressing automatically.

2. Security shortcuts

WPA3 > WPA2	Know the preferred secure default and when legacy support weakens security.
802.1X	Authenticates users/devices before network access on wired or wireless ports.
ACL	Filters traffic by rule order, source/destination, protocol, and port.
Segmentation	Limits blast radius and helps both performance and security.

3. Operations shortcuts

SNMP	Monitoring and management.
Syslog	Centralized event logs.
NTP	Time sync for logs and auth systems.
NetFlow	Traffic flow visibility and capacity planning.

4. Fast exam traps

TCP vs UDP	TCP is connection-oriented and reliable; UDP is lightweight and common for voice/video/DNS.
443 vs 8443	443 is standard HTTPS; 8443 is often alternate HTTPS, not the default.
APIPA	169.254.x.x usually means no DHCP lease.
Half vs full duplex	Full duplex removes collisions; duplex mismatch causes painful performance issues.