Different types of internet connections

1. **Broadband (DSL/Cable)**

→ DSL (Digital Subscriber Line**)** uses telephone lines,

→ Cable uses coaxial TV cables.

Pros	Cons
Widely available	Slower speeds compared to fiber
Always-on connection	Speed may vary with distance (DSL) or network congestion (Cable)
Suitable for browsing, streaming, and basic online gaming	Not ideal for heavy uploading or multiple high-usage users
More affordable than fiber in many areas	Infrastructure may be outdated in rural areas

2. **Fiber Optic**

→ Uses light signals through glass fibers for ultra-fast data transmission.

Pros	Cons
Extremely fast upload/download speeds	Limited availability in rural or remote areas
Low latency (great for gaming and video conferencing)	Installation can be expensive
Reliable and stable connection	Setup may require professional installation
Ideal for streaming 4K videos, large downloads/uploads	Monthly plans may be more expensive

3. **Satellite Internet**

→ Connects via satellites orbiting the Earth (e.g., Starlink, HughesNet).

Pros	Cons
Available almost anywhere, even in remote areas	High latency – not ideal for real-time gaming or video calls
Good for basic browsing, emails, and light streaming	Weather can affect signal quality
No need for physical cabling infrastructure	Expensive data plans and slower speeds
Option for mobile setups (e.g., RVs)	Data caps often apply

4. **Dial-up (Outdated)**

→ Uses standard telephone lines for internet access.

Pros	Cons
Extremely cheap	Very slow (max 56 kbps)
Still useful in extremely remote areas	Blocks phone line while in use
Minimal setup requirements	Can’t support modern online activities

5. **Mobile Internet (4G/5G)**

→ Uses cellular networks to provide wireless internet through SIM cards, mobile hotspots, or dongles.

Pros	Cons
Portable and wireless	Data limits/caps on most plans
Fast speeds with 4G/5G (especially in urban areas)	Speed and signal depend on location and network coverage
Easy to set up and use	Can be expensive for unlimited or high-speed plans
Good for travellers or temporary setups	Congestion in crowded areas can affect performance