

The Internet: Wires, Cables & Wi-Fi Video Guided Notes KEY

Step 1: Watch the video [The Internet: Wires, Cables & Wifi](#). The video is 6:41 minutes long.

Step 2: Answer the following questions...

1. The internet ships ____ binary information_____.
2. What is a bit? Any pair of opposites, like on or off. Most commonly used as 0 or 1 which is binary code. Official definition is the smallest unit of data that can be stored in a computer.
3. Complete the following chart:

8 bits	___1___ byte
1024 bytes	___1___ kilobyte
1024 kilobytes	___1___ megabyte
1024 megabytes	?? 1 gigabyte

The last row wasn't on the video. Can you figure it out?

4. What are three modern methods of sending bits?
Electricity, radio waves, light
5. What is bandwidth?
The maximum transmission capacity of a device
6. What is the bit rate?
The number of bits that we can send over a given period of time.
7. __Latency_____ is the amount of time it takes for one bit to travel from the sender to the receiver.

8. Complete the following chart

Method	Pro	Con
Electricity 	Cheap	Signal loss
Light 	Really Fast No signal loss	Expensive Hard to work with
Radio 	Mobile	Short range