



Transmission Media Activity?

Activity Title: "Media Match-Up!"

Objective: Students will correctly match types of network media (Twisted Pair, Coaxial, Fiber, Wireless) with their properties (e.g., speed, cost, distance, interference resistance).

Materials Needed:

- 1. Picture Cards: Large, colorful images of each media type.
- 2. **Property Cards**: Simple descriptions of properties (e.g., "High speed, expensive" for Fiber).
- 3. **Real-Life Objects** (optional): A short piece of twisted-pair cable, coaxial cable, fiber optic cable, and a Wi-Fi router image.
- 4. Large Poster/Whiteboard: For group matching.
- 5. **Stickers/Colored Dots**: For rewards.

Step-by-Step Activity:

- 1. Introduction (5-10 mins)
 - Show real objects/images of the four media types.
 - Briefly describe each in simple terms:
 - o **Twisted Pair**: "Like phone wires; cheap but slow over long distances."
 - o Coaxial: "Like TV cable; faster than twisted pair."
 - Fiber: "Super-fast light wires; expensive but great for long distances."
 - Wireless: "No wires! Uses signals (like Wi-Fi); convenient but can have interference."

Match Maker Game

Column A (Type of Transmission Media)	Column B (Characteristic / Description)
A. Twisted Pair Cable	1. Uses light signals; very high bandwidth and low
	attenuation
B. Coaxial Cable interference	2. Two insulated copper wires twisted together;
	susceptible to interference
C. Optical Fiber	3. Copper core with metallic shielding; better shielding
	than twisted pair
D. Radio Waves	4. Wireless communication; omnidirectional; used in
	AM/FM transmission
E. Microwaves	5. Wireless communication; unidirectional; used in
	satellite and cellular communication