

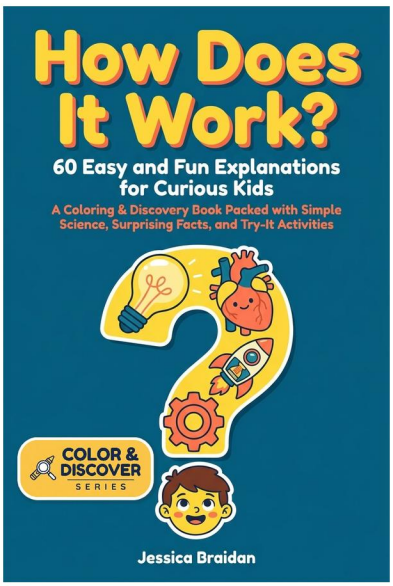
Did you know?

How Does a Microphone Hear Your Voice?

The Explanation: When you speak, your voice creates sound waves — tiny pushes of air moving outward from your mouth. A microphone has a thin, flexible piece called a diaphragm that wiggles back and forth when those sound waves hit it. That wiggling is connected to a coil or special crystal that turns the movement into an electrical signal. The electrical signal then travels through a wire or wirelessly to a speaker, recorder, or computer.

Try This: Hum a low note, then a high note into a microphone connected to a computer. Watch the sound wave on a recording app — notice how the shape of the wave changes with your pitch!

Fun Fact: A smartphone usually has about three tiny microphones inside, and each one is only a tiny fraction of an inch (a few millimeters) across!



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