

Lights, Camera, Media Literacy!
The Citizen's Guide to the Airwaves* ANSWER KEY

I. Use the "Frequency Assignments Used by Everyday Devices" chart to determine which has the higher frequency:

- 1) AM radio or FM radio? FM
- 2) mobile phones or microwave ovens? microwave ovens
- 3) highway toll tags (EZ Pass) or car alarms? highway toll tags
- 4) GPS or remote controlled toys? GPS
- 5) Wi-Fi or garage door openers? Wi-Fi

II. Use "The Spectrum's Worth Compared to Other Things" pictograms to determine the value of:

- 1) The Empire State Building \$ 1 billion
- 2) McDonalds Corporation \$ 31.2 billion
- 3) Gold in Fort Knox \$ 45.5 billion
- 4) The U.S radio frequency waves \$ 771 billion

Turn over the chart to see nine brochure-size sections.
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III. Use "Who Owns the Airwaves" to fill in the blanks.

"The Communications Act of 1934 states:

It is the purpose of this Act, among other things, to maintain the control of the United States over all channels of interstate and foreign radio transmission; and to provide for the use of such channels, but not the ownership thereof, by persons for limited periods of time, under licenses granted by Federal authority, and no such license shall be construed to create any right, beyond the terms, conditions, and periods of the license."

IV. Below "Who Owns the Airwaves," find the meaning of these initials:

- 1) FCC **Federal Communications Commission**
- 2) NTIA **National Telecommunications & Information Administration**

V. Use "Licensed and Unlicensed Spectrum: What's the Difference?" to answer Licensed or Unlicensed?

- 1) Remote controlled toys Unlicensed
- 2) Radio stations Licensed
- 3) WI-FI Unlicensed
- 4) Television stations Licensed
- 5) Walkie-Talkies Unlicensed