



Radio

Explain what radio is and discuss the following:

Differences between broadcast and hobby radio

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Differences between broadcasting and two-way communications

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Radio station call signs and how they are used in broadcast and amateur radio

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The phonetic alphabet and how it is used to communicate clearly

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Radio

Do the following:

Sketch a diagram showing how radio waves travel locally and around the world

Explain how the radio stations WWV and WWVH can be used to help determine what you can expect to hear on shortwave radio

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Explain the difference between a distant (DX) and a local station.

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Discuss what the Federal Communications Commission does how it is different from the International Telecommunication Union

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Radio

Do the following:

Explain the difference between a block diagram and a schematic diagram.

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Draw a block diagram for a radio station that includes a transceiver, amplifier, microphone, antenna, and feed line.

Discuss how information is sent when using AM, FM, continuous wave Morse Code transmission, single sideband transmission, and digital transmission.

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Explain how NOAA Weather Radio can alert you to danger.

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Explain how cellular telephones work. Identify their benefits and limitations in an emergency.

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Radio

Explain the safety precautions for working with radio gear.

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Visit the AMSAT and DARC booths. Discuss what types of equipment you saw in use, how it was used, what types of licenses are required to operate and maintain the equipment, and the purpose of the stations.

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Choose a career opportunity and radio and find out the following:

Name of Career:

Qualifications/Education Required:

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Major Responsibilities:

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