

# Lesson 1 ver 2

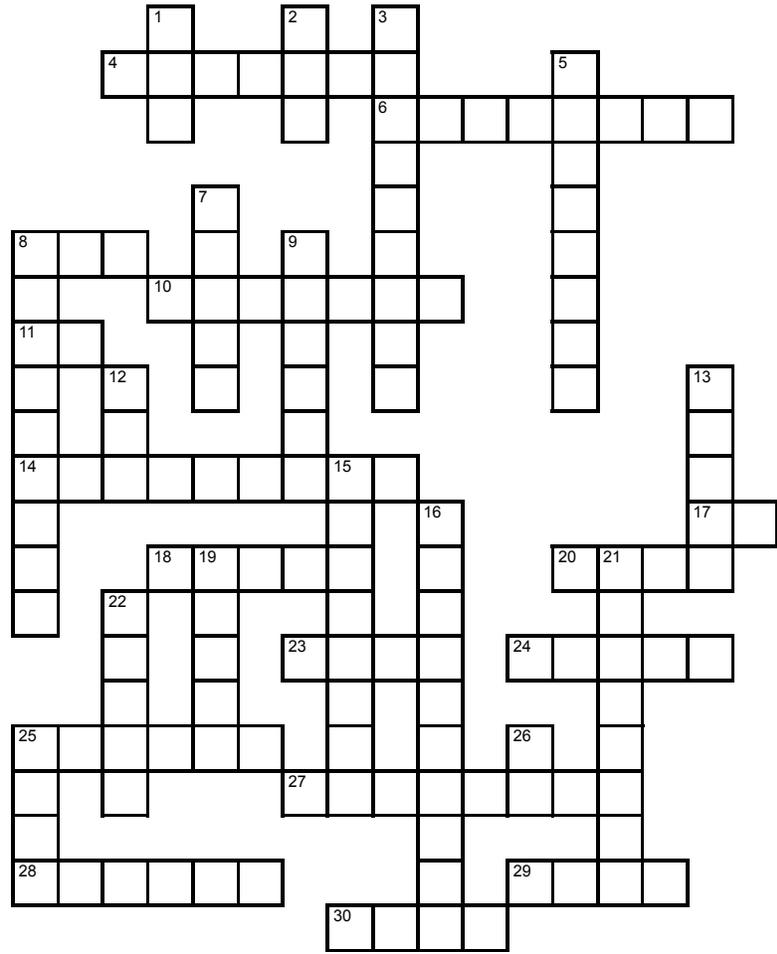
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## Across

- 4 The wavelength gets \_\_\_\_\_ as the frequency increases (7)
- 6 One of the two fields of a radio wave (8)
- 8 Voice modulation most often used for long-distance or weak signal contacts on the VHF and UHF bands (3)
- 10 North American stations are in ITU \_\_\_\_\_ (6,1)
- 11 Has the narrowest bandwidth (2)
- 14 Some U. S. Territories are not in region 2, and the frequency assignments are \_\_\_\_\_ than in the 50 States? (9)
- 17 3 to 30 MHz frequency range is referred to as \_\_\_\_\_ (2)
- 18 \_\_\_\_\_ sideband is normally used for 10 meter HF, VHF and UHF single-sideband communications (5)
- 20 The typical bandwidth of analog fast-scan TV transmissions on the 70 cm band (1,3)
- 23 The 6 meter, 2 meter, and 1.25 meter bands available to Technician Class operators have \_\_\_\_\_-restricted sub-bands (4)
- 24 A radio wave travel through free space at the speed of \_\_\_\_\_ (5)
- 25 You are using the \_\_\_\_\_ band when your station is transmitting on 146.52 MHz (1,5)
- 27 You should not set your \_\_\_\_\_ frequency to be exactly at the edge of an amateur band or sub-band (8)
- 28 The approximate velocity of a radio wave is 300,000,000 \_\_\_\_\_ per second (6)
- 29 443.350 MHz in the \_\_\_\_\_ frequency band is authorized to a Technician Class license holder operating in ITU Region 2 (2,2)
- 30 The approximate bandwidth of a single sideband voice signal (1,3)

## Down

- 1 30 to 300 MHz are the frequency limits of the \_\_\_\_\_ spectrum (3)
- 2 The \_\_\_\_\_ is a United Nations agency for communication technology issues (3)
- 3 The term that describes the number of times per second that an alternating current reverses direction (9)
- 5 The amateur service is secondary in some portions of the 70 cm band, and U.S.amateurs must avoid interfering with non-amateur \_\_\_\_\_ (8)
- 7 The orientation of the electric \_\_\_\_\_ of a radio wave is used to describe its polarization?,T3B02 New (5)
- 8 Amateurs may not cause harmful interference to primary users when an amateur frequency band is said to be available on a \_\_\_\_\_ basis (9)
- 9 \_\_\_\_\_ sideband is a form of amplitude modulation (6)
- 12 300 to 3000 MHz are the frequency limits of the \_\_\_\_\_ spectrum (3)
- 13 The approximate maximum bandwidth required to transmit a CW signal (3,2)



- 15 The primary advantage of single sideband over FM for voice transmissions is SSB signals have \_\_\_\_\_ bandwidth (8)
- 16 The name for the distance a radio wave travels during one complete cycle (10)
- 19 The approximate bandwidth of a VHF repeater FM \_\_\_\_\_ signal is between 5 and 15 kHz (5)
- 21 One of the two fields of a radio wave (8)
- 22 You are using the 1.25 \_\_\_\_\_ amateur band if you are transmitting on 223.50 MHz (5)
- 25 1296 MHz frequency in the \_\_\_\_\_ band is authorized to a Technician Class operator license (2,2)
- 26 Modulation most commonly used for VHF packet radio transmissions (2)