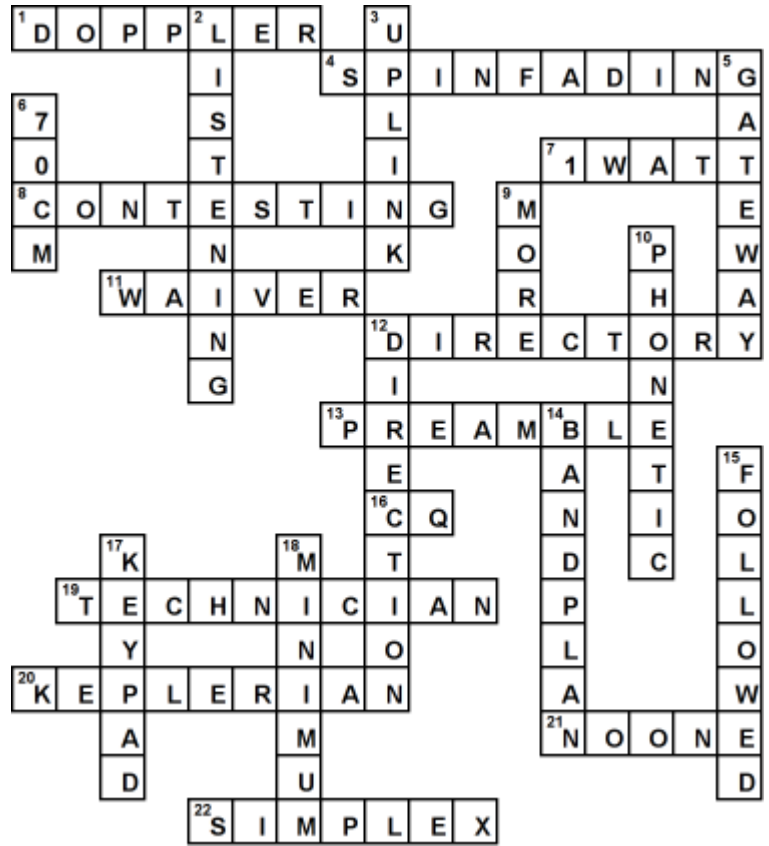


# Lesson 3B ver 2

6Feb2015

## Across

- 1 A change in signal frequency caused by motion of the transmitting station (7)
- 4 Rotation of the satellite and its antennas causes \_\_\_\_\_ (4,6)
- 7 The maximum power allowed when transmitting telecommand signals to radio controlled models (1,4)
- 8 Involves contacting as many stations as possible during a specified period of time (10)
- 11 The government agency sponsoring a disaster drill must submit a request for a temporary \_\_\_\_\_ to allow amateur radio operators to provide communications on for their employers (6)
- 12 Use a repeater \_\_\_\_\_ to obtain a list of active nodes that use VoIP (9)
- 13 The information needed to track a formal traffic message (8)
- 16 The procedural signal for calling any station (2)
- 19 Any amateur holding a \_\_\_\_\_ or higher class license may make contact with an amateur on the International Space Station (10)
- 20 The \_\_\_\_\_ elements are inputs to a satellite tracking program? (9)
- 21 When two stations on the same frequency interfere with each other, common courtesy should prevail, but \_\_\_\_\_ has absolute right to an amateur frequency (2,3)
- 22 You consider communicating via \_\_\_\_\_ rather than a repeater when the stations can communicate directly without using a repeater (7)



## Down

- 2 Saying your call sign is often used in place of "CQ" to indicate that you are \_\_\_\_\_ on a repeater (9)
- 3 Any amateur whose license privileges allow them to transmit on the satellite \_\_\_\_\_ frequency may be the control operator communicating through an amateur satellite (6)
- 5 The name given to an amateur radio station that is used to connect other amateur stations to the Internet (7)
- 6 The uplink is in the \_\_\_\_\_ band and the downlink is in the 2 meter band when satellite is operating in 'mode U/V' (2,2)
- 9 When the deviation of an FM transmitter is increased, its signal occupies \_\_\_\_\_ bandwidth (4)
- 10 To insure that voice message traffic containing proper names and unusual words are copied correctly, they should be spelled out using a standard \_\_\_\_\_ alphabet (8)
- 12 Radio \_\_\_\_\_ finding is used to locate sources of noise interference or jamming (9)
- 14 A voluntary guideline for using different modes an amateur band (4,4)
- 15 When responding to a call of CQ, say the other station's call sign \_\_\_\_\_ by your call sign (8)
- 17 Use the \_\_\_\_\_ to transmit the ID to select a specific IRLP node when using a portable transceiver (6)
- 18 An amateur must use the \_\_\_\_\_ transmitter power necessary to carry out the desired communication (7)