

RF Transmission/Reception

With the advent of the internet, we can "listen" on a remote receiver to most any frequency we wish. For example, www.globaltuners.com is an England based service with remote receivers all over the world. Want to listen to what somebody in the Philippines is hearing on the radio today? There is a receiver there. The closest one to us is down in San Bernardino and is quite active.

Please log in to globaltuners and create your own account.

1. What do "HF" and "VHF" mean?
2. What is one of the main differences between HF and VHF radio waves (besides their frequencies)?
3. QRZ (tell me)?? What are "Q-signals" and why were they invented?
4. QTH? QRM? QRT? SK?
5. Tune either globaltuners or the classroom radio (outside) to 5, 10, and 15 MHz. Can you hear anything on these frequencies? What do you suppose that they are?
6. See if you can find any information on "WWV" and relate it to what you expect to hear.
7. Where are WWV and WWVH located?
8. Why can't we use the classroom radio INSIDE the classroom or anywhere on the bottom floor of the V building? Take the classroom radio to the outside of the V building and see if there is any reception at all on these frequencies.
9. What is GMT? What is our GMT right now? What is the difference between GMT and UTC?
10. What are the current new Amateur Radio class licenses?
11. What are the Morse Code requirements for these licenses?

12. Do you think putting an amateur radio license as one of the qualifications on a job application might be valuable?
13. How much does the license itself (not the test) cost?
14. Go to www.ncarc.org and look at "for prospective hams".
15. Who are WX6RST, N6HTV, K6YIN and W5LFL? Use www.qrz.com to find these answers.
16. What class of license do each of them hold?
17. Why is one of them a "5" and the rest of them a "6" call? (<http://www.radioing.com/hamradio/callareas.html>)
18. Go to www.airnav.com and look up either Nevada County Airpark (KGOO) and Sacramento Metropolitan Airport (KSMF).
19. Is it legal for you to "snoop" (i.e. "listen in") on these frequencies?
20. Is it legal for you to push the "transmit" button on the radio on these frequencies?
21. What is an "ATIS/AWOS/ASOS"?
22. Can you access the Nevada County Airpark or Sacramento International AWOS without a radio?
23. Download the first "IAP" (Instrument Approach Procedures) for each of these airports. Can you make heads or tails out of what you see?
24. What does the "K" in front of a three-letter airport identifier mean?
25. Look up KORD, KSTL, and KIAD on Airnav.

- 26.If you were to tune the classroom VHF radio to frequencies for these airports, would you be able to listen to them from Grass Valley or Rocklin?
- 27.For whom were each of these airports named?
- 28.What does www.liveatc.net allow you to do?
29. What is the difference between "magnetic" and "true" compass headings? What is the difference (in degrees) at Grass Valley or Rocklin? (Look up www.skyvector.com)