



Name _____

Introduction to Wi-Fi

Today you are going to start a project that investigates the connection speeds around the school. However, before you do that you need to learn a little bit about how Wi-Fi works. Please pay careful attention to the video because this information may be very helpful for your investigation.

Video Questions

1. How does one type of electromagnetic radiation (or energy) differ from another type?
2. How big is a Wi-Fi wave?
3. What affects Wi-Fi signals?
4. How does Wi-Fi work?

Now that you know what Wi-Fi is it is time to see just how fast the signal where you are is traveling. Wait for instructions from your teacher before starting this activity.

On the web browser of your phone search for Internet speed test. There are several free web-based speed tests. Try at least three and record your data below.

Name of Speed Test	Upload Speed	Download Speed

Conclusions

1. Did all the tests give you the same result?
2. If not, why do you think this happened?
3. Where is the best/worst internet connection in the school?
4. Where is the greatest need for reliable and fast internet in our school?