Bandwidth for Online Learning Recommendations

To optimize your success in online courses, the following download speeds are recommended by activity.

Activity	Recommended Download Speed (Average for a single user)
Email and web browsing	500 Kbps
Download a 1 MB digital book in 5.3 seconds	1.5 Mbps
Online learning	250 Kbps
HD-quality video streaming	4 Mbps
Zoom group video session	8 Mbps
(Adapted from Fox et al., 2012)	

Testing Your Bandwidth Capacity

Using your mobile phone or tablet:

• Download a free app, such as TEST IT or Speedtest, for Android or iOS to determine your bandwidth capabilities.

Using your desktop or laptop:

- Visit <u>https://www.speedtest.net/</u> to test your internet capabilities.
- Visit your internet provider's website for more information.

If your bandwidth capacity is low, try these options (Cornelius 2015)

- 1. Turn off video or phone into Zoom meetings.
- 2. Make sure you're using the standard webcam and not HD webcam.
- 3. Switch to programs that require less bandwidth such as Google Hangouts, Whatsapp, or Facetime.
- 4. Plug in your Ethernet cable.

Resources:

Cornelius, C. 2015. "How Much Bandwidth Do You Need to Teach Online." Accessed April 8, 2020.

https://theonlineenglishteacher.com/2015/01/08/how-much-bandwidth-do-you-needto-teach-online/

Fox, C., Waters, J., Fletcher, G., & Levin, D. 2012. The Broadband Imperative: Recommendations to Address K-12 Education Infrastructure Needs. Washington, DC: State Educational Technology Directors Association (SETDA).