

August 12, 2018

From: Larry Dukerich, AMTA volunteer since inception; consultant for Vernier Software ...

Vernier interfaces and sensors and Logger Pro software have been the mainstay of data collection and analysis in the Modeling Chemistry curricular materials since they appeared in 2005.

However, since the trend in many schools has been to move away from computers towards Chromebooks and iPads, Vernier has responded by developing the app **Graphical Analysis 4 (GA4) which works on Windows, Mac, Chromebooks, iOS and Android OS devices.**

I have written a **tutorial which addresses the use of standard wired sensors (BTA or BTD) connected to the Chromebook using any of the LabQuest interfaces (Mini, Original, LQ2 or Stream) with GA4 software for the labs in units 1 - 3.** It also describes how one could use the newer Go Direct sensors (GDX) connected via USB cable to a computer or Chromebook, or connected via Bluetooth to a tablet or compatible computer or Chromebook.

For compatibility and connection information see www.vernier.com.

This document is one of the attachments to the Unit 1 materials on the AMTA member website. I hope you find it helpful.

August 16, 2018

From: Larry Dukerich

Recently, Vernier Software & Technology released an update to Graphical Analysis 4 (v4.5) for iOS. That's a good thing for now GA4 looks and operates the same across Windows and Mac computers, Chromebooks and iPad and Android tablets. Unfortunately, this rendered the tutorial I had posted a week ago somewhat obsolete. I have updated the GA4 tutorial so that it is now consistent with the new release. It can be found as an attachment to the Unit 1 materials on the member website.

Vernier continues to update Logger Pro software, which remains one of the most powerful and easy-to-use data collection and analysis programs in education. However, since so many schools are moving away from computers, Vernier has been working hard to provide an app that provides much of the functionality of Logger Pro. If you are in this situation, you will find that you can use GA4 to do the data collection and analysis called for in the Modeling Chemistry curricular materials.