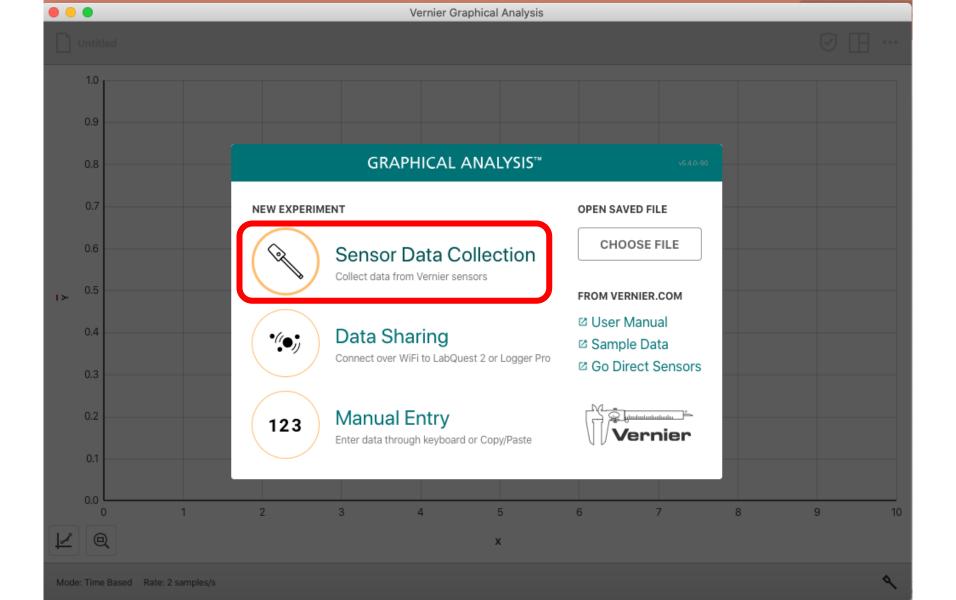
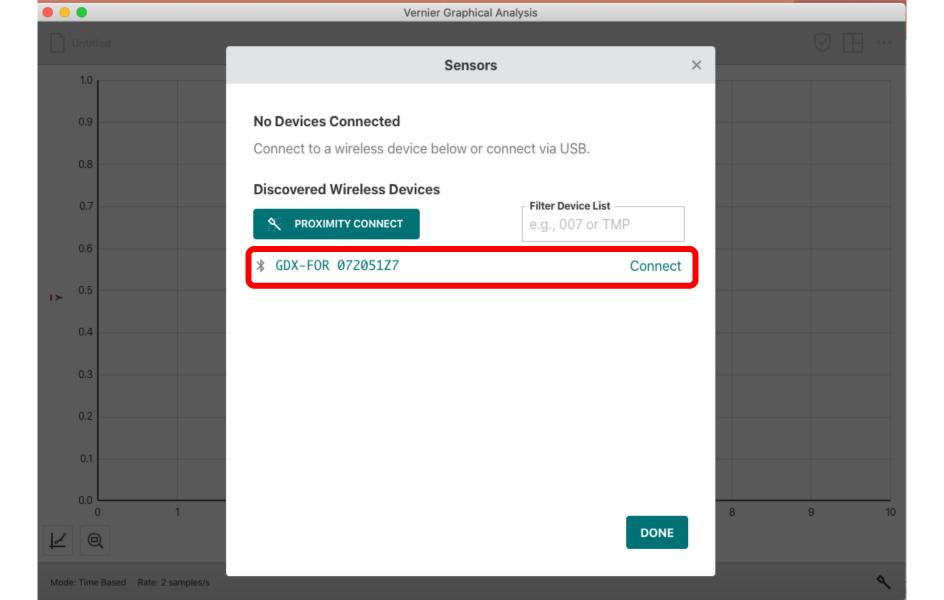
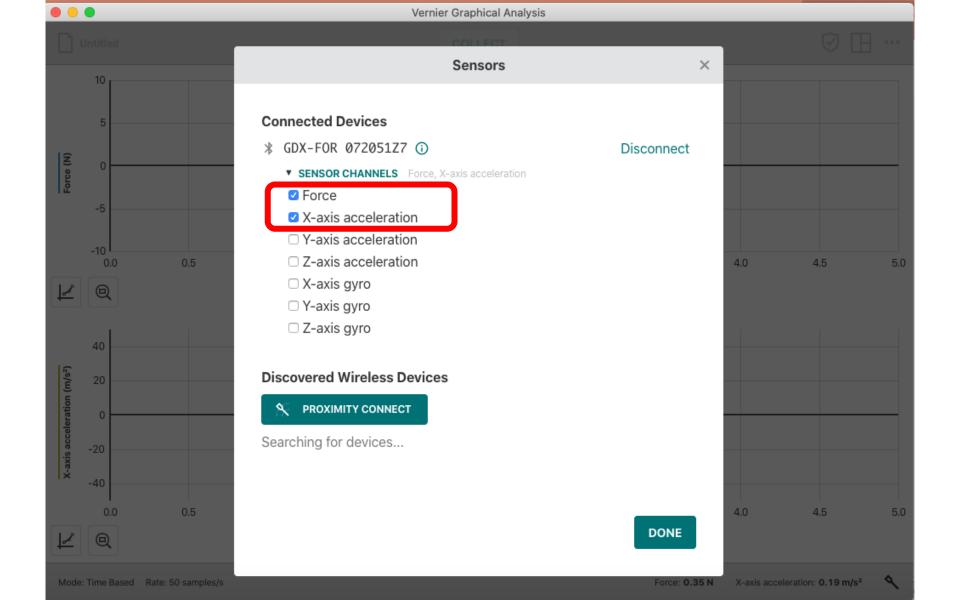
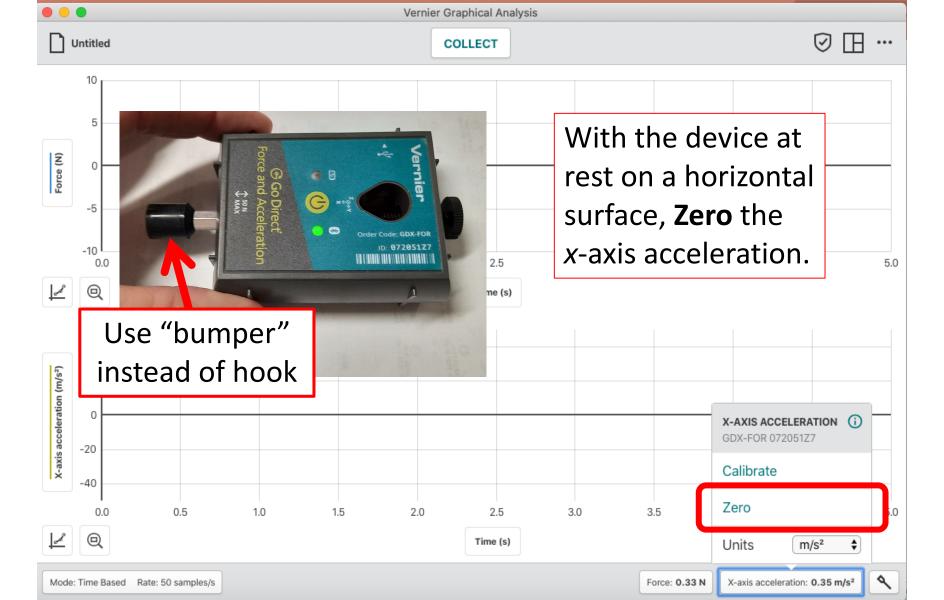
## Accelerometer DIY

- Goal: gain a better understanding of inertia, force, etc. and also how an accelerometer works.
- If successful, data recorded by the force sensor is used to calculate the acceleration of the unit and it will closely match the data from the built-in "commercial" accelerometer.



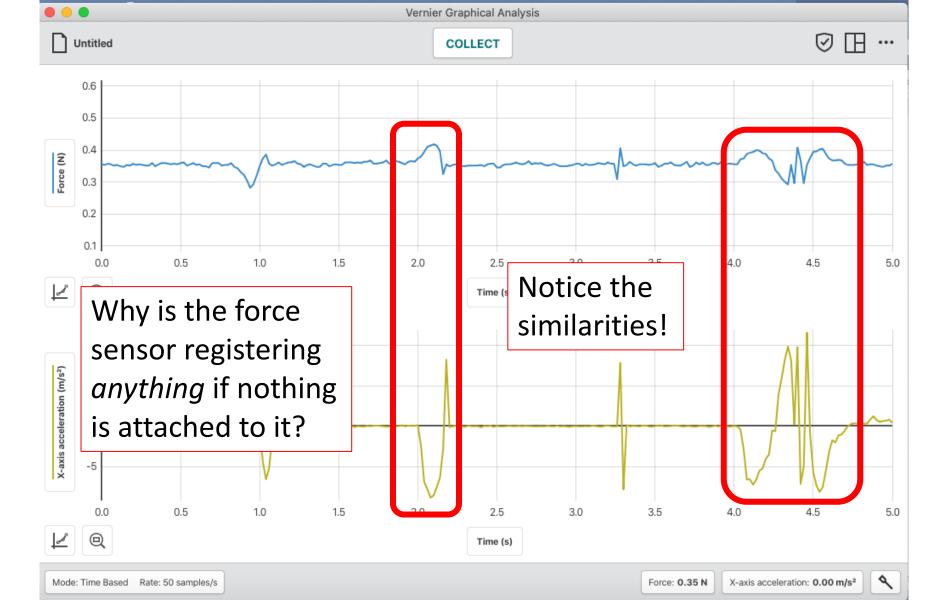




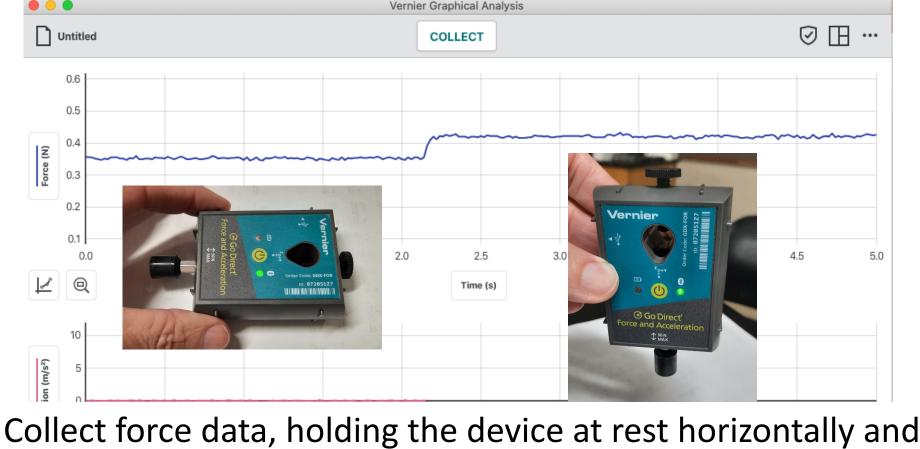




Without touching the force sensor, Collect data while rapidly sliding the device back and forth in the *x*-axis direction.







Collect force data, holding the device at rest horizontally and also holding at rest vertically as shown. Notice the different force readings. Use this to determine your equation for calculating acceleration from the force data.

