

## Guide for Vernier Go Wireless Link with Science Journal

While running Science Journal activities, you may choose to use the sensors in your smartphone or an external sensor. The sensors in your smart phone are great for measuring a range of things like sound, acceleration, and light intensity. However, there may be instances when an external wireless sensor will be better suited for your activity (found in chart below).

A large variety of wireless external sensors can be found at:  
<https://www.vernier.com/products/sensors/go-direct-sensors/>

### Which type of accelerometer should you use for your activity? What are pros and cons of each?

Phones	Wireless Sensors
<ol style="list-style-type: none"> <li>Utilizes record button to view data after test.</li> <li>Promotes less test trials, but can examine data more in depth afterwards.</li> <li>Promotes discussion about the extraneous data that occurs before after tests.</li> <li>Provides a familiar device that participants can test with during the activity and at home.</li> </ol>	<ol style="list-style-type: none"> <li>Can view data in real-time.</li> <li>Promotes more frequent test trials.</li> <li>Removal of sensors from participants creations is not needed and participants can focus on data that appears on Science Journal during the time of the test.</li> <li>Allows for sensors to be packaged into different forms (e.g. shape, size, weights decoration).</li> </ol>

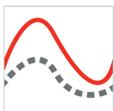
### Steps to connect wireless 3-axis accelerometer with Vernier Graphical Analysis:

((( Go Wireless® Link



#### Setting up wireless accelerometer

- Download Vernier Graphical Analysis from Google Play Store on phone.



- Open Vernier Graphical Analysis and close all other apps.
- Touch "Create New Experiment".
- Select "Go Wireless Devices" from menu.
- Allow device's location and enable bluetooth if prompted.
- Wait for app to search for wireless devices.

7. Select “Go Wireless Link” to connect phone to 3-axis accelerometer (make sure that Go Wireless Link is charged/on by pressing button on the middle of the Go Wireless Link and checking for flashing red light. Also be sure to note which cord is plugged into Go Wireless Link [x-axis, y-axis, or z-axis]).



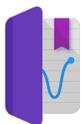
8. After the graph appears to be successfully recording accelerometer values and a green light is flashing on the Go Wireless Link, close “Vernier Graphical Analysis” app on phone.

*Tip:* You can hold the button on the Go Wireless Link for about 10 seconds until the red light turns off to reset the device.

### Steps to connect wireless 3-axis accelerometer with Science Journal:

#### *Syncing with Science Journal*

1. Close Vernier Graphical Analysis App.
2. Open Science Journal app on phone.



3. On main screen, select  to open up sensor settings.
4. Under “Available Devices” press the drop down arrow on “Vernier”.
5. Select “VST 3-Axis Accelerometer” (letter in parenthesis indicates which axis is plugged in. Make sure to plug in cord to Go Wireless Link before looking for “Available Devices”.
6. Go back to main screen (observation mode) and add a new graph to measure “VST”.
7. Move wireless accelerometer to check if it is synced to Science Journal.
8. Go back and check previous steps if not working correctly.

*Tip #1:* If you’ve already attempted to “Retry” the connection and the “VST” graph is still not showing, try going back to  to open up sensor settings and uncheck and check “VST 3-Axis Accelerometer”. This will often help reset the sensor settings and redetect “VST 3-Axis Accelerometer”.

*Tip #2:* If you’ve connected multiple wireless sensors to one phone and are confused as to which one is which, in sensor settings you can always select the 3 dots next to a wireless sensor and choose “Forget this device” to eliminate it from your sensor options.

For more in-depth instructions, check out this support page: <https://www.vernier.com/til/3823/>

### Switching Go Wireless Link Sensor Between Multiple Devices:

After all phones have been previously synced to Go Wireless Link

1. Open Science Journal app on phone in Kids Zone.
2. On main screen, touch  to open up sensor settings.
3. Select "VST 3-Axis Accelerometer (X)" and check the box for "Go Wireless Link".
4. Go back to main screen (observation mode) and add a new graph to measure "VST".
5. Move wireless accelerometer to check if it is synced to Science Journal.
6. **To sync another phone**, the previous device must be disconnected from the Go Wireless Link. Only one device can be connected to the Go Wireless Link at a time.
  - a. Go back to the sensor settings on the original phone by touching .
  - b. Uncheck the box for "Go Wireless Link".
  - c. Move to next phone to connected to Go Wireless Link and follow steps 1-5.