

Events with Entry in Vernier DataQuest® (Tutorial F3)

http://www.atomiclearning.com/k12/en/movie/85871/play_window?type=Tutorial&sid=2410

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You can take manual readings using compatible sensors with the Vernier Dataquest Application. We can start by pressing

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the Home key, and then selecting the Vernier DataQuest icon at the bottom. This inserts the application into a

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new document. In this case, I'm using the Vernier Gas Pressure Sensor via the Easy Link USB Device. Using a 20-milliliter

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syringe, I'll withdraw the plunger all the way back to 20 milliliters, and then connect it to my sensor. Now I'll

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insert the mini USB cable into the handheld. After a moment, appropriate units for the sensor appear on the right side.

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If I just press the Start Collection button, Data will be collected at regular intervals. In this case, however,

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I don't want to do that. I want to tell the DataQuest application when to take the reading. To do that, I'll press the Menu

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key and then choose Experiment, Collection Mode, and then choose Events with Entry. In the dialog box that appears,

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I can then type in a unique name, press the Tab key and enter my units, and press the Tab key again to highlight

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Ok, and press the Click key. Next, I'll use the syringe connected to the Gas Pressure Sensor, and I'll push it

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down to 15 milliliters. Once I've got it set at 15, I'll move over to the Start Collection button, and press the

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Click key. Notice that a new button appears right next to the Start Collection button. It has a camera icon. This

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button allows me to manually take a data reading. I can hover over it, and press the Click key, and the TI-Nspire

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will prompt me for my first data point value. In this case, I'll use the milliliters reading on the syringe and type

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"15", and then press the Enter key to record my data. Now I'll press the syringe in further to 10 milliliters, and

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when I've got that steady, I'll press the Click key. Again, the TI-Nspire will prompt me for my data point value. This

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time I'll enter "10", and then I'll press the Enter key. Notice that I have two new data points. Finally, I'll do

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my best to press the syringe all the way down to five millimeters, and then press the Click key. I'll enter "5", and then press the

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Enter key. I can continue using this method for any additional manual data points I would like to enter for this particular

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experiment. Next, I'll move the pointer to the lower left corner, and press the Click key to stop collecting data.

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