

## Using Events with Entry to manually collect data in an experiment (Tutorial F3)

[http://www.atomiclearning.com/k12/en/movie/40767/play\\_window?type=Tutorial&sid=1674](http://www.atomiclearning.com/k12/en/movie/40767/play_window?type=Tutorial&sid=1674)

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You can take manual readings using compatible sensors with the TI Nspire. In this case, I'm using the Verneer Gas Pressure

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Sensor via the Easy Link USB Device. Using a 20-milliliter syringe, I'll withdraw the plunger all the way back to 20

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milliliters, and then connect it to my sensor. Now I'll insert the USB cable into my computer. This will open the

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AutoLaunch window. I'll select Data and Statistics, and then I'll click OK. After a moment, I'll see the Data and

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Statistics application open, and the data collection console will appear with the appropriate units. If I click the

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Start Data Collection button, the Data and Statistics application will collect data at regular intervals. In this case, however,

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I don't want to do that. I want to tell the data collection console when to take a data reading. To do that, I'll click

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Experiment, Setup Collection. Now I'll choose Events with Entry. Next, I'll use the syringe connected to the gas pressure

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sensor, and I'll push it down to 15 milliliters. Once I've got it set at 15 milliliters, I'll click the Start Data

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Collection button. Notice that a new button appears just below that button. This button allows me to manually take

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a data reading. I can just click it and the TI Nspire software will prompt me for my first data point value. In

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this case, I'll use the milliliters reading on the syringe, and type "15", and then click OK to record my data. Now

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I'll press the syringe in further to 10 milliliters and when I've got that steady, I'll click that button again. I'll

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be prompted for my data point value. This time, I'll enter "10", and then click OK. Notice that I have two new data

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points. Finally, I'll do my best to press the syringe all the way to five milliliters, and then click that button

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one more time. I'll enter "5", and then click OK. I can continue using this method for any additional manual data

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points I would like to enter for this particular experiment.

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