

TI-Nspire™ Handheld Script

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

http://www.atomiclearning.com/k12/en/movie/40764/play_window?type=Tutorial&sid=1670

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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 turn on my TI-Nspire handheld, and then insert the mini

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USB cable into the handheld. This will open the AutoLaunch window. I'll select Data and Statistics, and then press

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the Enter key. After a moment, I'll see the Data and Statistics application open and the data selection console will appear

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with the appropriate units. If I press the Start Data Collection button, the Data and Statistics application will collect

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data at regular intervals. In this case, however, I don't want to do that. I want to tell the data collection console

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I'll choose Events with Entry. Next, I'll use the syringe connected to the Gas Pressure Sensor, and I'll push it down

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to 15 milliliters. Once I've got it set at 15, I'll highlight and press the Start Data Collection button by pressing

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Enter. Notice that a new button appears just below the Start Data Collection button. This button allows me to

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manually take a data reading. I can just press Enter and the TI-Nspire will prompt me for my first data point value.

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In this case, I'll use the milliliters reading on the syringe and type "15", and then press the Enter key to record my

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data. Now I'll press the syringe in further to 10 milliliters, and when I've got that steady I'll press the Enter key.

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Again, the TI Nspire will prompt me for my data point value. This time I'll enter "10", and then I'll press the

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Enter key. Notice that I have two new data points. Finally, I'll do my best to press the syringe all the way to five

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millimeters, and then press the Enter key. I'll enter "5", and then press the Enter key. I can continue using this

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method for any additional manual data points I would like to enter for this particular experiment.

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