

Data Collection using LabPro & TI 83+

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Set-up:

1. Connect an auto ID probe(s) to the LabPro unit.
2. Make sure that the TI-83+ calculator is connected to the LabPro with an appropriate interface cable.
3. Turn on the TI-83+ calculator and LabPro.
4. Load the DataMate program by pressing the **APPS** button and typing in the number that corresponds with the DataMate program.
5. If a timed experiment is **not** needed, begin using the probe to collect data.

Timed Experiments:

A preset timed experiment is part of the DataMate program. If the preset time is appropriate for your experiment, press **2** on the numerical keypad and begin collecting data.

Setting up Non-Auto ID Probes:

1. Press **1** on the keypad (**SETUP**).
2. Use the scroll keys to select CH1: and press **ENTER**
3. Locate the desired probe from the menu, and enter its keypad number.
If multiple probes of that type exist a second menu will appear. Select the appropriate probe by entering its keypad number.
4. Press **1** on the keypad (**OK**).
5. The calculator is now setup to use the selected probe.

Changing the Experiment Length:

1. Press **1** on the calculator keypad to enter the SETUP mode.
2. Use the blue scroll keys and scroll down to "MODE: TIME GRAPH", then press **ENTER**.
3. Press **2** on the keypad to select "TIME GRAPH".
4. Press **2** on the keypad to change the "TIME GRAPH" settings.
5. Enter in the desired time interval between data samples in seconds then press **ENTER**.
6. Enter the desired number of data samples and press **ENTER**.
7. Press **1** if the data is correct. (Press **2** and repeat if the time data is incorrect.)
8. Press **1** again to return to the Main Screen.
9. Press **2** to begin data collection. Data collection will stop automatically.
10. When data collection is complete the graph will automatically rescale. Use the left and right blue scroll keys to view the points on the graph.