

Collecting data using sensors (Tutorial F1)

http://www.atomiclearning.com/k12/en/movie/28243/play_window?type=Tutorial&sid=1674

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To collect data for an experiment, first create a data collection layout, either manually or using the automatic

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start mode. In this case, I'm using the Go Temp Sensor to monitor temperature, so I'll plug it into my computer's

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USB port. The program is by default in automatic start mode, which will quickly and automatically set up and format

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my page so I can begin my experiment. To begin data collection, I'll click the Start Data Collection icon in the Data Collection

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tool; it looks like a little play button. This will begin taking measurements and adding data points at the rate

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of 1 per second. Once I'm done collecting data, I'll click the same button, which turns into a Stop Data Collection

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icon while the data is being captured. If I don't stop the data collection, the experiment will be considered complete

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once 180 data points have been collected. If I were using a motion sensor, the experiment would capture a total of

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100 data points per experiment at a rate of 20 samples per second. I can see that the data was successfully captured

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because there are values in the Lists & Spreadsheet application in columns A & B as well as a graph of the data in the

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Graphs & Geometry application. It's possible to store this data run so that I can review this data at a later time. To

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learn more about how to store data, just watch the Storing Data Runs movie in this section. If I don't want to store

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my initial run, I can just click Start Data Collection again and the new run will overwrite the old one.

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