

What You Didn't Know about the TI-Navigator...

A Quick Reference Guide to the useful applications of the TI-Navigator



Directions on how to use the TI-Navigator:

How to Use TI-Navigator

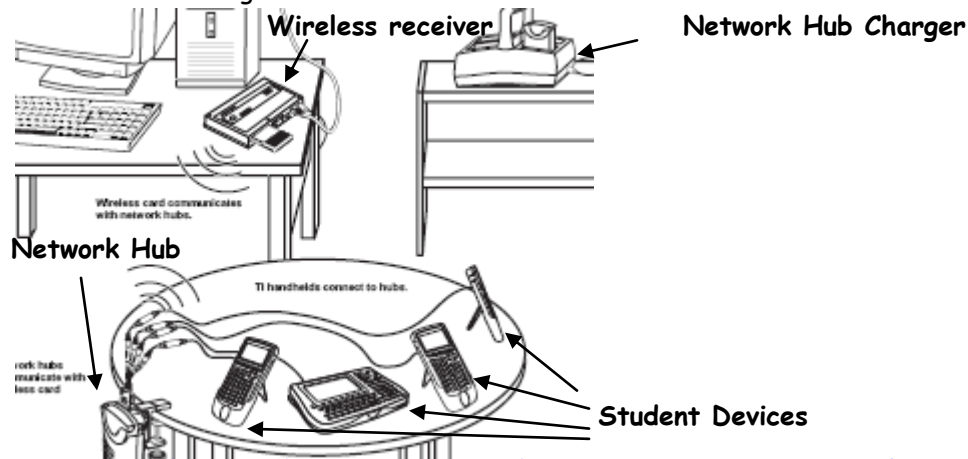
There are Four Elements needed:

1. A Wireless connection to the classroom PC that can receive wireless messages.
2. Network Hubs - Devices at each group of desks that make a wireless connection from the students' calculators to the wireless receiver on the classroom computer.
3. A calculator for each student - The TI-Navigator is compatible with TI-83 Plus, TI-83 Plus Silver Edition, TI-89, TI-92 Plus, or Voyage 2000.
4. The Software- Learning Check, Notefolio, Timespan, Cell sheet, and/or Study Cards

The program can be run on any system with Wi-Fi. The cost of a 32-seat classroom set through Texas Instruments is around \$4,000.

Classroom Set-up

- Once the software is set up on the computer, you can use it to set up your classes and your students' usernames and passwords to log in the system.
- Arrange desks so that four students can be seated near a network hub to plug in their calculators.
- Have each student sign on with their username and password. On the classroom computer you can monitor who has signed in and who has not.



http://education.ti.com/guidebooks/navigator/TINav_ReferenceGuide.pdf

****Here are some benefits, directions and examples for using the four main components of the TI-Navigator. (The Activity Center, Quick Poll, Screen Capture and Class Analysis.)****

Activity Center

The Activity Center helps facilitate an engaging, collaborative learning environment.

- It helps generate classroom discussion by allowing students to work collaboratively by contributing points, equations, or lists.
- It helps promote a deeper understanding by exploring key math concepts in an engaging manner.

*A **TI-Navigator** will ultimately obtain higher student achievement because of the student collaboration

Contributing Lists in the Activity Center

These directions detail uses of Lists in the Activity Center, such as configuration options for contributing lists, selecting contributing lists for student input, starting list activity, viewing list data, and saving list data through an example exercise. (An example of students arm length and height will be used to show how to create a list.)

1) Launch the TI-Navigator Software:

- Click: **Start** → **Programs** → **TI Tools** → **TI-Navigator** → **TI-Navigator**. The TI-Navigator computer home screen will open.

2) Start a Class:

- Check that the TI-Navigator network hardware is connected and powered. Also, check that the calculators containing the necessary applications are connected. Choose a class to start in the **Current Class** selector and click **Begin**.

3) Open the Tools Tab and Launch the Activity Center:

- Select the **Tools** tab located in the upper middle of the home screen.
- Select the **Activity Center** icon. The Activity Center will open.
- Select the **List** tab. The List view will open.

4) Configure and Begin the Contribute Lists Activity:

- Select **Lists** from the **Contribute** selector, and then select the **Configure** button. The **Configure Calculators for Activity** and **Create New Lists** dialog boxes will open.
- Enter **arml** and **hght**, for arm length and height, as the list names for this activity.
- Click **OK**. The **Create New Lists** dialog box will close.
- Select the **Configure Plots** button. The **Plot Options** dialog box will open.
- Select **ARML** for the **X-List** of **Plot 1** and **HGHT** for the **Y-List**. This will plot the entered values of students for arm length against their entered height values.
- Click **Enable Plot on device** to enable students to view their entered values in a plotted form on their calculators.
- Click **OK**. The **List** view will be updated with the new blank lists, **ARML** and **HGHT**.
- Click **Start Activity** to allow students to enter the **Activity Center** to begin contributing their data.

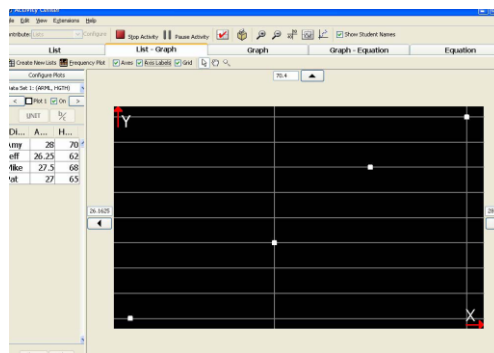
5) Have Students log in, enter the Activity Center and contribute data:

- Have students log in, and select **Activity Center** from the **TI-Navigator Home** screen. The **Activity Center** will open.

- Students enter their arm length and height.
- Since **Plot on device** was enabled, students can choose to view their data in plotted form.
- Students will select **Send** to send their data to the Activity Center on the instructor's computer. The data will appear in the **List** view.
- Select the **Show Student Names** option to display student names by the data they have entered. This is shown below:

Displ...	ARML	HGHT
Susan	28	70
Mike	26.25	62
Jeff	27.5	68
Ouri	27	65

- Select the **List-Graph** tab to view a graph of the list data. The **List-Graph** view will open. This is shown below:



6) Save the List Data:

- Place the cursor above ARML list heading, and position it in the middle of the cell, allowing the cursor to change to a hand.
- Select **ARML** list heading in order to select the complete column of data.
- Hold the **shift** key while placing the cursor above **HGHT** list heading, and position it in the middle of the cell, changing the cursor to a hand, and click to select the complete column of data.
- Click: **File** → **Save** → **Save Selected Lists**. The Select Save Data dialog box will open.
- Click **Next**. The Select Save Folder dialog box will open.
- Choose the location where you want to save the lists, and select **Save**.

For this list, the students were asked to enter their arm length and height. One can use any information to create a list just like this one using the TI-Navigator and the Activity Center!

Quick Poll

The Quick Poll helps get real-time feedback and instantly assesses your students' understanding.

- It measures your students' comprehension and shows areas in mathematics that are in need of reinforcement.
- It allows every student to give an answer confidentially. All students are now given a voice.
- It identifies and corrects common mistakes as they occur.
- It also gives teachers the ability to adjust lessons as needed.

Here are a variety of polling questions that can be asked to generate some data:

- Agree/Disagree
- Yes/No
- True/False
- Right/Wrong
- Always/Sometimes/Never
- Multiple Choice
- Open Responses

Using the Quick Poll

These directions detail how to send quick poll to students, view poll summaries, show student names, and send poll results to students.

1) Launch the TI-Navigator Software:

- Click: **Start** → **Programs** → **TI Tools** → **TI-Navigator** → **TI-Navigator**. The TI-Navigator computer home screen will open.

2) Start a Class:

- Check that the TI-Navigator network hardware is connected and powered. Also, check that the calculators containing the necessary applications are connected. Choose a class to start in the **Current Class** selector and click **Begin**.

3) Open the Tools Tab and Launch the Quick Poll Tool:

- Select the **Tools** tab located in the upper middle of the home screen.
- Select the **Quick Poll** icon.

4) Select Type of Poll:

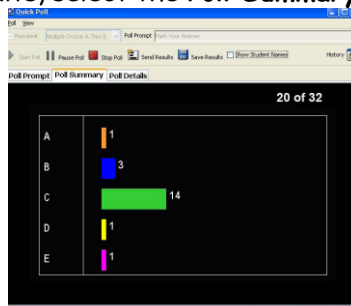
- There are many polling questions which you can choose to send
- From the drop-down list, select the **type of poll** to send to the class.

5) Start Poll:

- Select the **Start Poll** button.

6) View Student Responses:

- To graphically view poll results, select the **Poll Summary** tab. This is shown below:



- To view poll results in a table, select the **Poll Details** tab. To view student Display Names, select the **Show Students Names** check box. This is shown below:

Display Name	Response	Value	Time Stamp
Curti	1+1+1+1	4	9/11/05 11:55:06 AM
Sahani	4+1	4	9/11/05 11:55:11 AM
Wilks	100/25	4	9/11/05 11:55:13 AM
Raky	4	4	9/11/05 11:55:14 AM
Dimesh	2+2	4	9/11/05 11:55:15 AM
Shawn	2+2	4	9/11/05 11:55:16 AM
sp	2+2	4	9/11/05 11:55:17 AM
Tim	2+2	4	9/11/05 11:55:18 AM

7) Other Poll Options:

- To enable students to change their selection, select the **Resubmit** check box.
- To send poll results to students, select the **Send Results** button.
- To temporarily keep students from responding to a poll, you can pause the poll by selecting the **Pause Poll** button.

Screen Capture

The Screen Capture feature monitors your students' work and ensures that they are on track and on task.

- One can use screen shots to get of all your students' work instantly.
- The level of understanding can be tracked using this feature.

Using the Screen Capture

1) Launch the TI-Navigator Software

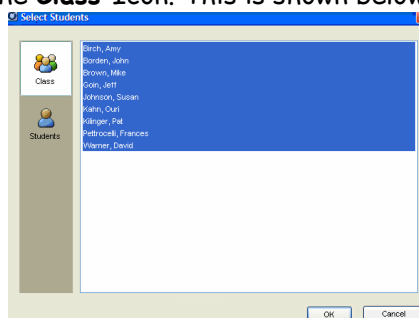
- Click **Start** → **Programs** → **TI Tools** → **TI-Navigator** → **TI-Navigator**.

2) Start A class

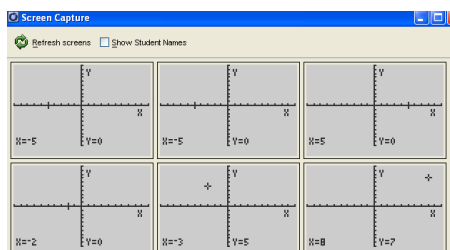
- Check that the TI-Navigator network hardware is connected and powered. Also, check that the calculators containing the necessary applications are connected. Choose a **Class** to begin in the **Current Class** selector and click **Begin Class**.

3) Open the Tools Tab and launch the Screen Capture tool

- Click the **Tools** tab near the upper middle of the home screen and go to the **Screen Capture** Icon.
- To select the entire class click the **Class** Icon. This is shown below:



To select specific students click the **Individuals** Icon. This is shown below:



4) Screen Capture

- The **Screen Capture** window opens and student screens are collected.
Right-click on a student's screen. A pop-up dialog will appear. Save Screen Image.
-OR-
From the **File** menu, choose **Save Class Snapshot**.

Class Analysis

- The Class Analysis features shows students results on:
 - Assignments
 - Quizzes
 - Tests
- It allows teachers to know who understands the material and who needs additional help.
- It is also automatic grading for the teacher. This means, no more staying up late at night grading papers!

Using the Class Analysis Feature

1) Loading Class Analysis

- Click **Start** → **Programs** → **TI Tools** → **Class Analysis** → **Class Analysis**

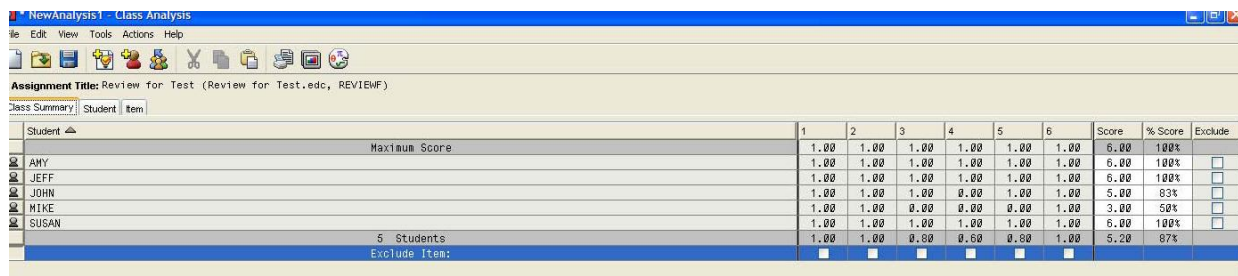
2) Open the Assignment

- Select **Edit** → **Choose Assignment**.
- The assignment will be loaded into **Class Analysis**

3) Students' Answers

- Select **Edit** → **Add Student Answers**.
- Select the student files to add and select **Open**.
 - Save the results.
 - The assignment will be loaded into **Class Analysis**

Here is an example of Automatic Grading and using the Class Analysis Feature, by having your students send their assignments to the teacher:



Student	1	2	3	4	5	6	Score	% Score	Exclude
AMY	1.00	1.00	1.00	1.00	1.00	1.00	6.00	100%	<input type="checkbox"/>
JEFF	1.00	1.00	1.00	1.00	1.00	1.00	6.00	100%	<input type="checkbox"/>
JOHN	1.00	1.00	1.00	0.00	1.00	1.00	5.00	83%	<input type="checkbox"/>
MIKE	1.00	1.00	1.00	1.00	1.00	1.00	6.00	100%	<input type="checkbox"/>
SUSAN	1.00	1.00	0.00	0.00	0.00	1.00	3.00	50%	<input type="checkbox"/>
5 Students							5.20	87%	
Exclude Items									