

# EASY CHART



# iPod Touch/iPad Lesson Plan - Graphing Using Easy Chart and the Weather App

**Apps Used:** Easy Chart - \$ Free for iPod/iPhone \$0.99 for iPad; Weather - \$ Free

**Subjects that can be taught using apps:** Math (Graphs and Data), Geography, Science (Weather)

**Grade Levels:** 4th-6th, could be adapted for younger grades. This activity works well individually or in pairs.

**Time:** 60 minutes

**Lesson:** Once students have the devices available, start in Easy Chart. I like to have the students familiar with how the app works before gathering the data.



Once in the app have them go to the settings. Change the input from slider to keyboard. You can adjust the output size for the charts as well here.

Tap Save.

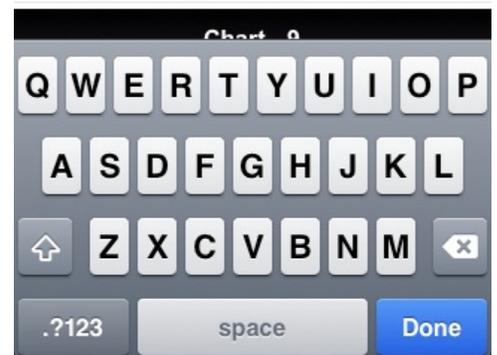




Once back in the app, scroll to the bottom of charts that have already been created. You will find a green plus sign. Tap that plus sign to start a new chart.

The chart opens with a Chart #, that can be changed by selecting the name and then tapping the x.

You will see two data points labeled one and two. You tap on the names to change those. Then you can tap on the numbers to change those. You can add more data points by tapping on the next line.



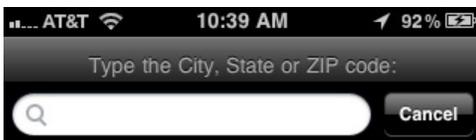
With that instruction you should be ready to go into the Weather app and gather your data.



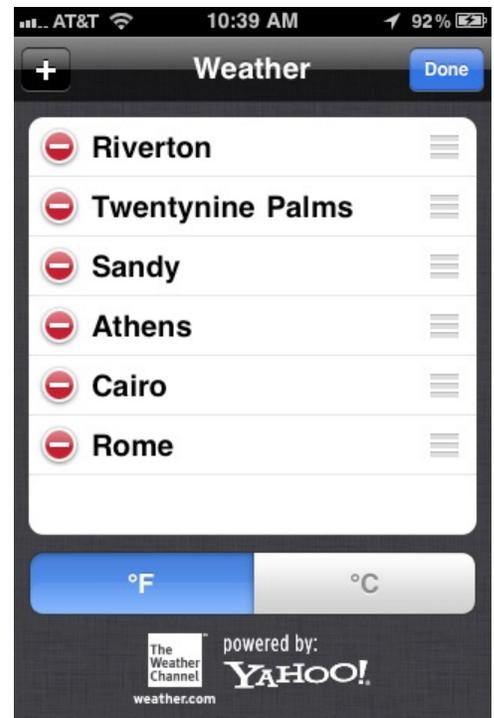
Here is a city already set up in the Weather app. To set up a new city in the app, tap on the information ( *i* ) button in the lower left hand corner.

This brings up the screen to add and delete cities. Ask the students not to delete any cities as there may be other groups using those.

Tap on the plus ( + ) sign to bring up the search screen.



Type in the name of the city you would like to add to the app. Be aware that many states and even countries may have cities with the same name, make sure you select the correct city to add.



After they have added the 3 cities, have students get out a piece of paper and pencil. Have them create a data table with the expected high temperature for the next 5 days for each city.

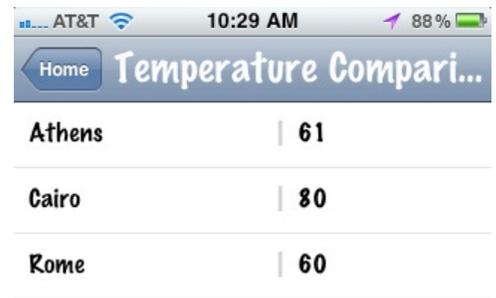
Now they can go back into Easy Chart and enter the data for their chart. I have them build 2 charts to begin with. For the first chart I have them do a comparison of the highs in the 3 cities for one of the five days.

Next I have them build a chart of the highs for all 5 days for one city.

When the charts are built, have the students discuss whether the default chart (pie chart) is the best way to display this data. Have them tap the chart button in the lower left corner of the screen to cycle through the different chart options. Ask them to decide which chart best tells the story of the data.

Now have them tap the button next to the chart button. This changes the color scheme for the chart. They can cycle through and choose the scheme they like best for any particular chart.

I like discussing how different kinds of charts tell a different story with the data. For a final activity with this lesson I like to do some live data collection. I may choose favorite ice cream flavors or favorite candy bars, but I let students give me five choices. Then I ask all students to vote on one of the five and we graph that data. This helps to bring data collection and understanding data home to the students.



City	High
Athens	61
Cairo	80
Rome	60

