

## Create an X-Y Graph:

Go To: <https://nces.ed.gov/nceskids/createagraph/>

(1) Select a **type of graph** by clicking on the icon.

The screenshot shows the 'CREATE A GRAPH' interface. On the left is a navigation menu with options: About, Educators' Corner, Create a Graph, Test Your Knowledge, School Search, Chances, Dare to Compare, and Connect. The main content area is divided into two sections. The left section contains a 'Help' section with a question mark icon and text explaining that graphs and charts are used in newspapers, magazines, and businesses. Below this is an 'Examples' section with text and a small bar chart icon. The right section is titled 'Please select a graph type to begin' and features five icons: Bar, Line, Area, Pie, and XY. A red arrow points to the XY icon.

(2) Select different **settings** for the layout of your graph.

The screenshot shows the 'CREATE A GRAPH' interface with the XY graph type selected. The 'Design' tab is active, and a red arrow points to it. The 'XY Type' section shows three options: Line (selected), Bubble, and Scatter. The 'Style' section includes settings for Background Color, Grid Color, Grid Lines (set to 6), and Legend (set to position right). A red arrow points to the 'Design' tab.

- Select type of X-Y plot
- Select a background color
- Select grid line color you
- Select the number of grid lines
- Select legend location

### 3) Enter your **Data**:

**Help**

**Examples**

**Graph Title:** appears at the top of the graph and should describe the graph

**X-Axis Label:** appears at the bottom of the graph, describes the x values

**Y-Axis Label:** appears at the left of the graph, describes the y values

**Source:** appears at the bottom of the graph and can be used to give credit to author of the data

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**Data Set:** this defines the number of items and groups of items

**Items & Groups:** graphs consist of a series of data items, some in multiple groups.

**Min & Max Values:** limits the scale of the graph

**Graph Title:** **a** Time vs Temperature for Unk

**X Axis Label:** **b** Time (min)

**Y Axis Label:** **c** Temperature (°C)

**Source:** **d** Classwork

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**Data Set:** **e** Points: 17 Groups: 1

**Group Label:** **e** Time (min)

**Line Width:** **f** large

**Point Shape:** **f** No Shape

**Point Size:** **f** medium

**Color:** **f** Line Point Fill

**g**

Point	X	Y
Point 1:	X	Y
Point 2:	X	Y
Point 3:	X	Y
Point 4:	X	Y
Point 5:	X	Y
Point 6:	X	Y
Point 7:	X	Y
Point 8:	X	Y
Point 9:	X	Y
Point 10:	X	Y
Point 11:	X	Y
Point 12:	X	Y
Point 13:	X	Y
Point 14:	X	Y
Point 15:	X	Y
Point 16:	X	Y
Point 17:	X	Y

**h** Min-Value: X 0 Y -20  
Max-Value: X 90 Y 130

**Design**

**Data** ←

**Labels**

**Preview**

**Print/Save**

a) Graph a title  
 b) X-Axis label  
 c) Y-axis label  
 d) Source of your data.  
 e) Select data points and number of groups of data.  
 f) Select the colors for your bars/lines/slices  
 Select the shape, size, and color of the points for x-y plots.  
 g) Enter your data.  
 h) Select minimum and maximum values for the axes.

### 4) Select **Labels**:

**Help**

**Examples**

Choosing the right look and feel is important when designing a graph.

**Show Labels:** displays the values on the graph

**Type:** is the data-specific value shown with each label

**Prefix:** is added to the beginning of a data label, such as (\$)

**Suffix:** is added to the end of a data label, such as (lbs, kg, cm, ft, %, °)

**Position:** where the data labels are displayed on the graph

**Label Color:** the color of the data labels

**Background Color:** the color behind the data labels. By default the background is transparent.

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**Font:** sets the font style for all text and values in the graph

**Font Color:** the color of all text and values

**Font size:** the font size of all text and values

**Data Labels:**

Show Label:  Yes  No

Type: y value Prefix: Suffix:

Position: Above Font Size: 14 pt

Label Color: Background Color:

Fonts:

ABC abc 123  abc abc 123

ABC abc 123  ABC ABC 123

ABC abc 123  ABC abc 123

ABC abc 123  ABC abc 123

Font Color: Font Size: 14 pt

**Design**

**Data**

**Labels** ←

**Preview**

**Print/Save**

**Start Over** **Update** ←


**Always click "UPDATE" for any changes made on label**

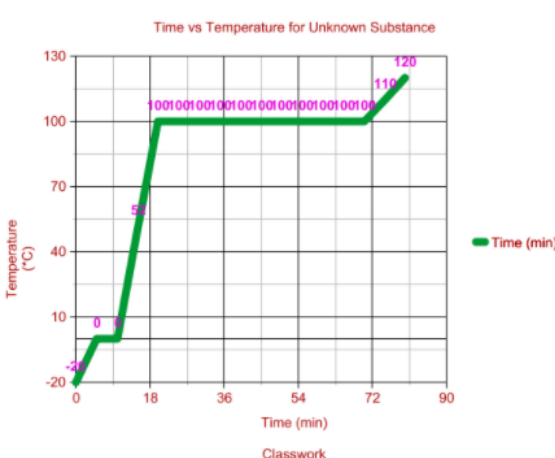
### 5) **Preview** your work:

**Help**

**Graph Preview:** shows you the current state of your graph. To make changes, click the *Design*, *Labels*, and *Data* tabs. To print or download this graph, click the *Print/Save* tab.

It is recommended that you have [Macromedia Flash Player](#) installed for the best quality preview with the fastest loading time.





Design

Data

Labels

Preview

Print/Save



6) **Print/Save** then turn is as attachment to the classwork file.

Graph Download - Google Chrome

nces.ed.gov/nceskids/createagraph/downloadgraph.as...

## DOWNLOAD A GRAPH

**Graph Download**

Choose your File Format then click Download to save your graph to your computer

File Format: PDF Download


**Which file format is best for me?**

Best Use	Format	Description
<b>Printing</b>	<b>PDF</b>	(Portable Document Format) <small>Requires Adobe Acrobat</small>
	<b>SVG</b>	(Scalable Vector Graphics) <small>Requires Adobe SVG Viewer</small>
<b>Web pages</b>	<b>PNG</b>	(Portable Network Graphics)
	<b>JPG</b>	(JPEG, Joint Photographic Experts Group)
<b>Clip Art</b>	<b>EMF</b>	(Enhanced Metafile Format) Can be imported into programs such as MS Word or MS PowerPoint
<b>Graphics</b>	<b>EPS</b>	(Encapsulated Postscript) Can be opened with graphics programs such as Adobe Illustrator or QuarkXPress


[Close](#)

**Project Tools**

- [Start a new graph](#)
- [Erase this graph](#)
- [Copy to new graph](#)



Print



Download

NOTE: Pop-ups must be enabled in your browser in order to print or download.

Email this graph  HTML  Text

To:  Send

You will be emailed a link to your saved graph project where you can make changes and print.

Lost a graph? [Click here to email you a list of your saved graphs.](#)

TIP: If you add [kidszone@ed.gov](mailto:kidszone@ed.gov) to your contacts/address book, graphs that you send yourself through this system will not be blocked or filtered.

Design

Data

Labels

Preview

Print/Save



Submit as attachment



2) Click Download



1) Click Print/Save