Examples taken from
Science Focus 3 & 4 (2004)
published by
Pearson Education Australia:

- Construct a time line of major [volcanic] eruptions in the last century.
- Research gene switching and gene expression. You could start by considering the work of F. Jacob, J. Monod and H. Harris. Summarise your findings using a time line.
- Research the lives of the Curies and use a time line to summarise key events in their lives.

Timelines in Science
http://science.uniserve.edu.au/school/profdev/timelines/
- Examples of science based timelines available on the Web;
- Web sites for developing simple paper based timelines;
- Online tutorials for creating more sophisticated timelines using common application programs such as Word, Excel and Inspiration;
- Interactive timelines; and
- Timelines to support NSW syllabuses that have been developed by UniServe Science using the some of the resources identified and featured on the web page.

Using Excel
How to Create a Timeline in Excel
http://www.vertex42.com/ExcelArticles/create-a-timeline.html

Timelines in the Science Curriculum
Kaye Placing
UniServe Science

Application software tutorials
- Excel
- Word
- Inspiration

Using Excel
How to Create a Timeline in Excel
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Planck vs Einstein
Set Up the Data Table

- Open up a new Excel workbook.
- Starting with cell B5=1, create a column of numbers 1-10.
- Starting with cell B6="Event 1", create a column of event labels.
- Set up a column starting with cell E5 that will represent the heights of the leader lines in the timeline.
- In cell F5, enter the following formula: =OFFSET($B$4.ROW()+ROW($F$4),0,1,1)
- In cell G5, enter the following formula: =OFFSET($G$4.ROW()-ROW($G$4),0,1,1)
- Copy the formulas in F5 and G5 down to F14 and G15, respectively.

http://www.vertex42.com/ExcelArticles/create-a-timeline.html

Add the Timeline Event Labels

- This step is the trickiest if you are new to Excel charts (and even if you aren’t). But, hopefully the images will help explain things.
- Select the first Data Label (the one on the far left as shown in the image below).
- Click on the data label once more so that you are editing just the one label.
- Press the ‘x’ key, or click inside of the Formula Bar.
- Either type in the reference, or click on cell G5. The result should look like the following:
- Repeat the first 4 steps for the rest of the data labels.

http://www.vertex42.com/ExcelArticles/create-a-timeline.html

Create the Timeline Chart

- Start the Chart Wizard (Insert > Chart...)
- In Step 1, choose the XY Scatter Chart (see image).
- In Step 2, set the X and Y values as follows (see image):  
  X Values: =Sheet1!F5:F$14
  Y Values: =Sheet1!G5:G$14
- In Step 3, do the following in each of the tabs:
  - Titles: Leave all fields blank (unless you want a Title)
  - Axes: Turn off the y-axis
  - Gridlines: Turn off all gridlines
  - Legend: Turn off the legend
  - Data Labels: Turn on the Y values (see image)
- Click Finish

http://www.vertex42.com/ExcelArticles/create-a-timeline.html

Add the Leader Lines

- The leader lines are created by adding one-sided error bars to the data series.
- Right-click on a data point (not the label) and select "Format Data Series..." to open the Format Data Series dialog box, or use the Chart builder to do the same thing:
- In the Y Error Bars tab, select the Minus display and set the Percentage to 100
- Select OK.
- Select the Leader Lines.
- The leader lines are created by adding one-sided error bars to the data series.
- Right-click on a data point (not the label) and select "Format Data Series..." to open the Format Data Series dialog box, or use the Chart builder to do the same thing.
- In the Y Error Bars tab, select the Minus display and set the Percentage to 100
- Select OK. You’re done with this part.
- Select the Leader Lines.
- The leader lines are created by adding one-sided error bars to the data series.
- Right-click on a data point (not the label) and select "Format Data Series..." to open the Format Data Series dialog box, or use the Chart builder to do the same thing.
- In the Y Error Bars tab, select the Minus display and set the Percentage to 100
- Select OK. You’re done with this part.

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Distance of the planets from the Sun

- Mars
- Venus
- Earth
- Jupiter
- Saturn
- Uranus
- Neptune
- Pluto

Distance: Astronomical units

Kaye Placing, UniServe Science
Interactive Timelines

- xtimeline
- Timeline creator

xtimelines

- http://www.xtimeline.com/
- Beta version
- Web-based
- Free
- Registration necessary
- Timelines are hosted by web site
- Can have public or limited editing
- Public or limited viewing

Examples of xtimelines

- Space exploration
- Development Of the Atomic Theory
- History of Astronomy
- History of Transistors
- Biography of Albert Einstein
- Timeline of Extinctions
- History of the AIDS epidemic
Timelines in the Science Curriculum

Timelines Creator

- [ ] http://timeline.cer.jhu.edu/
- [ ] Center for Educational Resources, Johns Hopkins University
- [ ] Download from web site, use locally
- [ ] Available for Windows or Macintosh
- [ ] View locally or from personal web site
- [ ] Player must be present on local computer for viewing

Thank you!

Time to explore
http://science.uniserve.edu.au/school/prodev/timelines/

Kaye Placing
kplacing@mail.usyd.edu.au