

10. Mathematics and the beginnings of modern science

(Burton, 8.1)

The topics for this unit have been largely absorbed into the neighboring units, so we shall only give some web links and comment upon their contents in a few cases.

http://web.ipac.caltech.edu/staff/jarrett/talks/LiU/scien_method/AppendixE.html

http://www.sciencebuddies.org/science-fair-projects/project_scientific_method.shtml

http://physics.ucr.edu/~wudka/Physics7/Notes_www/node3.html

http://en.wikipedia.org/wiki/Scientific_method

Among other things, the *Wikipedia* article contains a discussion of the ties between mathematics and the scientific method.

Since Francis Bacon's writings from the early 17th century have had a particularly strong impact on the development of the scientific method as we know it today, we include the following two references:

<http://plato.stanford.edu/entries/francis-bacon/>

http://en.wikipedia.org/wiki/Francis_Bacon

In the next unit we shall discuss some contributions of René Descartes (day – cart), whose work was also very influential in the development of the scientific method. Here are the corresponding links for Descartes:

<http://plato.stanford.edu/entries/descartes/>

http://en.wikipedia.org/wiki/Ren%C3%A9_Descartes