Sundials Mathematics and Astronomy

Technical Manual

The movie includes two animated computational modules, written under the Microsoft Excel spreadsheet. One covers the topic of daily arch simulation, while the other one addresses the graphical representation of the evolution of the shadow of a vertical rod at noon, as the Earth goes through its orbit.

Both of these modules were developed using only very simple programming techniques in the VBA (Visual Basic for Applications) language (it ships with the standard Microsoft Office distribution) as the spreadsheet is seen as a very useful tool to be used by students, so that they can build animated and interactive applications on their own.

Film: Sundials_Mathematics_Astronomy_720p_H264_25fps

Video:

PAL system
MP4 format
frames per second - 25 fps
H264 compression
HD 720p [progressive]
length: 5'00"
No sound