

51-22-45 N

Pinewood School, Bourton

1-56-12 W

This Spot-On sundial tells local sun time (“time as it is” )here at Bourton. 12 o’clock noon is the time when the sun is highest in the sky. The difference between two successive noons is usually not exactly 24 hours, but can be up to 20 seconds longer or shorter, depending on the position of the earth in its orbit round the sun. This leads to cumulative differences (the Equation of Time) with the time shown on our watches.

Our watches tell Greenwich Mean Time (“time as we would like it to be”) or British Summer Time, as established by Act of Parliament in 18???. “Mean time” indicates that each day is assumed to be exactly 24 hours long to the second. “Greenwich” means that it is based on noon at Greenwich, which occurs 7mins 45 secs earlier than it does at Bourton (because the earth, rotating at 360- in 24 hours, takes this time to rotate 1-56-). This difference is the Longitude Correction.

The table shows the time by your watch of local solar noon here at Bourton for six days each month. (For other dates, you can interpolate the values) The table takes into account both the Equation of Time and the Longitude Correction. For a few minutes either side of this time, a line of light will shine through the slit in the gnomon to illuminate the noon lines.

Epsom, England

Spot-On Sundials

[www.spot-on-sundials.com](http://www.spot-on-sundials.com)

	January	February	March	April	May	June	July	August	September	October	November	December
1 st	12:10:56	12:21:17	12:20:18	12:11:52	12:04:53	12:05:19	12:11:17	12:14:00	12:07:56	11:57:39	11:51:24	11:56:33
6 th	12:13:14	12:21:50	12:19:03	12:10:24	12:04:17	12:06:08	12:12:13	12:13:37	12:06:19	11:56:06	11:51:24	11:58:56
11 th	12:15:22	12:22:03	12:18:02	12:09:00	12:04:04	12:07:05	12:13:00	12:12:58	12:04:36	11:54:42	11:51:44	12:00:42
16 th	12:17:16	12:21:57	12:16:40	12:07:43	12:04:00	12:08:07	12:13:36	12:12:05	12:02:51	11:53:40	11:52:26	12:03:04
21 st	12:18:52	12:21:33	12:15:12	12:06:44	12:04:10	12:09:12	12:13:59	12:11:00	12:01:04	11:52:32	11:53:28	12:05:31
26 <sup>th</sup>	12:20:10	12:20:53	12:13:42	12:05:38	12:04:34	12:10:17	12:14:09	12:09:42	11:59:19	11:51:50	11:54:51	12:08:01

This sundial was presented to Pinewood School by the designer, Piers Nicholson, in 2002 to commemorate all those Pinewood boys who moved with him from Postbridge, Devon to Bourton in 1947