Your Name

Instructor Name

Course Number

Date

Assignment

**Latitudes and longitudes**

*Texas:* The latitude of Texas is 31.000000 and longitude is -100.00000

*London:* The latitude of London is 51.509865 and longitude is -0.118092

*Sydney:* The latitude of Sydney is -33.86785 and longitude is 151.20732

(*Sunrise Sunset Calendars*)

**Lengths of daylight and nighttime (March 21, June 21, September 21 and December 21)**

|  |  |  |
| --- | --- | --- |
| **Texas** | **Daylight** | **Nighttime** |
| **March 21** | 12 hours | 12 hours |
| **June 21** | 12 hours | 12 hours |
| **September 21** | 10 hours and 37 minutes | 13 hours and 23 minutes |
| **December 21** | 10 hours 16 minutes | 13 hours 44 minutes |

|  |  |  |
| --- | --- | --- |
| **London** | **Daylight** | **Nighttime** |
| **March 21** | 12 hours 12 minutes and 56 seconds | 11 hours 47 minutes |
| **June 21** | 16 hours 38 minutes | 07 hours and 22 minutes |
| **September 21** | 12 hours and 17 minutes | 11 hours and 43 minutes |
| **December 21** | 7 hours and 49 minutes | 16 hours and 11 minutes |

|  |  |  |
| --- | --- | --- |
| **Sydney** | **Daylight** | **Nighttime** |
| **March 21** | 12 hours and 07 minutes | 11 minutes and 53 minutes |
| **June 21** | 09 hours and 53 minutes | 14 hours and 07 minutes |
| **September 21** | 12 hours and 03 minutes | 11 hours and 57 minutes |
| **December 21** | 14 hours and 24 minutes | 09 hours and 36 minutes |

**Differences between Dallas and London**

*Seasons:* The difference in the Dallas and London is only 6 hours difference, else both enjoy the four seasons in the year.

*Equinoxes:*  The only difference is the time duration, while the dates are the same for both Dallas and London.

*Solstices:* The solstices for Dallas and London are not different; however, there is a difference in the timeframe. The UK is 6 hours ahead of Dallas

**Similarities between Dallas and London:**

*Seasons:* People of both Dallas and London enjoy four seasons in the year. There are four seasons in a year that people enjoy and they are winters, summers, spring, and autumn.

*Equinoxes:*  The dates for the equinoxes in London and Dallas are 21 June and 23 December.

*Solstices:* The solstice’s dates in London and Dallas are 20 March, and 23 September.

*Seasons Calculator – Dallas, USA - Texas Years 2014–2024*

Works Cited

https://www.timeanddate.com/calendar/seasons.html?n=70. Accessed 12 Nov. 2019.

https://www.sunrisesunset.com/. Accessed 12 Nov. 2019.