

The Planets of the Solar System are 29 in number. Of them 11 are *primary* and 18 *secondary* or Moons. Of these Moons, our *EARTH* has one, *Jupiter* four, *Saturn* seven, and *Uranus* six. Of the primary planets, two are called *inferior*, viz., *Mercury* and *Venus*, because they are nearer the *Sun* than the *Earth*; and others are called *superior* because further from the *Sun* than the *Earth*.

<i>Distance from the Sun.</i>	<i>Magnitude—diameters in miles,</i>	<i>Length of year.</i>
<i>Mercury</i> , 37 millions of miles	3,140	3 months.
<i>Venus</i> , 68 millions of miles	7,700	7½ do
<i>Earth</i> , 95 millions of miles	7,912	1 year
<i>Mars</i> , 142 millions of miles	4,200	2 do
<i>Jupiter</i> , 485 millions of miles	89,690	12 do
<i>Saturn</i> , 880 millions of miles	79,000	29 do
<i>Uranus</i> , 1,800 millions of miles	35,000	84 do

The *Solar year* is the time which the sun takes in passing over the twelve signs of the *Zodiac*, which is 365 days, 5h. 48m. 48s. The *Civil year* is 365 days 6 hours, or rather 365 days for three years in succession, and every fourth year 366 days. The *Sidereal year* is 365 days, 6h. 6m. 18½s. The *Anomalistic year* is 365 days, 6h. 14m. The *Lunar astronomical year* is 354 days, 8h. 48m. or 12 lunations. The *anomalistic year* is an advance of the orbit as part of the solar system in space, and its excess over the *Sidereal* or *Tropical year*, is the stellar measure of the annual advance of the whole system.

St. John's.

True Latitude of Church Hill..... 47°34' North.

Longitude (West of Greenwich)..... 52°42' West.

Variation of the Compass, 32°30' and increasing seven seconds annually.

NOTE.—The Tide Tables (in the Calendar pages) may be rendered applicable to various other places on the coast, by simply adding or subtracting as the case may be, the difference between the times of High Water on the Full and Change of the Moon at St. John's, and the time of the full tide at any other harbor; for example, to find the time of High Water at any of the principal harbors of Conception Bay, add 45 minutes to the time at which it will be High Water at St. John's; for Placentia Bay, add 2 hours; for St. Peter's, 1h. 50m.; for Ferrolle, on the French Shore, 4 hours, &c.—See table LVII of Norie's Epitome,