

Astronomical Calculations.

ECLIPSES.

DURING the year 1877 there will be three eclipses of the sun and two of the moon.

1. February 27, total eclipse of the moon, invisible in America, except in extreme east of Nova Scotia.

2. March 14, partial eclipse of the sun, invisible in America, except in the north and north-west.

3. August 8, partial eclipse of the sun, invisible in America.

4. August 23, total eclipse of the moon, partly visible in America. Eclipse begins 7:52 evening in Toronto; 7:19 in Quebec; 7:39 in Frederickton; 6:57 in Halifax. Ends 9:02 in Toronto; 9:34 in Quebec; 9:55 in Frederickton; 10:05 in Halifax.

5. September 6, partial eclipse of the sun, invisible in North America.

MORNING STARS.

Venus until May 6.
Mars until June 6; visible also after sunrise till September 5.
Jupiter till April 13; also visible before sunrise till June 21.
Saturn from March 1 to June 16; also visible before sunrise till September 15.

EVENING STARS.

Venus after May 6.
Mars after June 6.
Jupiter after April 13.
Saturn after March 1; also after June 16.

CHRONOLOGICAL CYCLES.

Dominical Letter.....	G	Julian Period.....	6590
Roman Indiction.....	5	Mid-Lent.....	March 11
Golden Number.....	16	Good Friday.....	March 30
Jewish Lunar Cycle.....	13	Ascension Day.....	May 10
Epact.....	15	Easter Sunday.....	April 1
Solar Cycle.....	10	Ash Wednesday.....	Feb. 14

THE FOUR SEASONS.

Spring begins, Sun's entrance in Aries, March 20, 7h. 10m. morning.
Summer " " " Cancer, June 21, 3h. 8m. morning.
Autumn " " " Libra, Sept. 22, 6h. 0m. evening.
Winter " " " Capricornus, Dec. 21, 12h. 2m. afternoon.

FIXED AND MOVEABLE FESTIVALS AND ANNIVERSARIES.

Ash Wednesday	Feb. 14	Holy Thursday	May 10
St. David	March 1	Whitsunday	" 20
St. Patrick	" 17	Midsummer Day	June 24
Lady Day	" 25	Dominion Day	July 7
Easter Sunday	April 1	Michaelmas Day	Sept. 2
St. George	" 23	Birth of Prince of Wales	Nov.
Birth of Queen Victoria ..	May 24	St. Andrew	" :

FIRST MONTH.]

1	Mon.	The year op
2	Tu.	struction of l
3	Wed.	the prospect i
4	Th.	health and lif
5	Fri.	national blet a
6	Sat.	land, at least?

Wine is a Mocker, st

7	Sun.	AM I MY B
8	Mon.	First Youths'
9	Tu.	
10	Wed.	None but sobe
11	Th.	Men who use
12	Fri.	cold than those
13	Sat.	Order of Temp

thereby is not wise.—

14	Sun.	Now therefore
15	Mon.	nor s'rong drin
16	Tu.	First Temp. M
17	Wed.	Rev. Dr. Beech
18	Th.	Temperance m
19	Fri.	
20	Sat.	Pledge against

drink wine, and men

21	Sun.	Praise pra
22	Mon.	The American
23	Tu.	First meeting o
24	Wed.	Van Pelt, " th
25	Th.	his Saloon busi
26	Fri.	Dunkin Bill ve
27	Sat.	

Woe to him th

28	Sun.	I have drunk n
29	Mon.	poured out my
30	Tu.	Rev. Dr. Nott (A
31	Wed.	J. Dunlop con.