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30 Th. 6 39 4 49 4 53 M. 6 56 31 Fr. 6 41 4 47 5 30 0 25 7 57 THE TIDES .- The column of the Moon's Southing gives the time of high water at Parrsboro, Cornwallis, Horton, Hantsport, Windsor, Newport, and Truro.

High water at Pictou and Cape Tormen-tine, 2 hours and 11 minutes LATER than at Halifax. At Annapolis, St. John, N.B., and Portland Maine, 3 hours and 25 min-utes LATER, and at St. John's, Newfoundland, 20 minutes EARLIER, than at Halifax. At Charlottetown, 2 hours 56 minutes A Westport, 2 hours 54 minutes LATER. A Yarmouth, 2 hours 20 minutes LATER.

FOR THE LENGTH OF THE DAY. Add 12 hours to the time of the san's setting, and rom the sum subtract the time of rising. FOR THE LENGTH OF THE NIGHT.-Subtract the time of the sun's setting, from 12 hours and to the remainder add the time of rising next morning.

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And all diseases that lead to it; such as COUGHS, NEGLECTED COLDS, BRONCHITIS, PAIN IN THE CHEST, AND ALL DISEASES OF THE LUNGS,

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btained for Inventors, in the United States, Canada, and Europe, at reduced terian, that the sun never sets on the ing's ever-bearing mulberries! One of rates. With our principal Office located United States, must be admitted to be them will hear truit for eight or ten in Washington, directly opposite the United States Patent Office, we are able to attend to all Patent Business with greater promptness and despatch and less cost, than other patent attorneys, who are at a distance from Washington, and who have, therefore, to employ "associate attorneys." We make preliminary examinations and furnish opinions as to patentability, free of charge, and all who are interested in new inventions and Patents are invited to send for a copy of our "Guide for obtaining Patents," which complete instructions how to obtain Patents, and other valuable matter. We refer to the German-American National Bank, Washington, D. C.; the Royal Swedish, Norwegian, and Danish Lega-tions, at Washington; Hon. Jos. Casey, late Chief Justice, U. S. Court oi Claims to the Officials of the U. S. Patent Office and to Senators and Members of Congres

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SCIENCE.

READING AT SEVEN AND A HALF MILES DISTANCE FROM THE CANDLE .-On the evening of July 12, the Maxim electric light was put in operation on the tower of the Grand Union Hotel, Saratoga Springs, N. Y., with a view to test the extent of its illuminating powers. An open parabolec reflector was used-no lenses-and care was taken by Mr. Maxim to set the points of the carbons a little at one side of each other, and to adjust them to the exact focus of the reflector. When this was fairly accomplished the light was turned toward a spot in Ballston Spa, New York, 7½ miles distant, where by previous arrangement, a group of several hundred persons were assembled to witness the experiment. So powerful was the light, so accurate the focusing when the condition is one of chronic and alignment, that the designated place in Ballston was instantly illuminated, it may be sufficient. When the douche so that ordinary print could be read, does not seem to succeed, the spray from the time seen on watches, etc. The night was clear, still, and dark. The experiment was made at 91 o'clock P, M. This is believed to be the greatest distonce at which illumination of equal and stay in the smoke for half an hour, degree has been accomplished. We are indebted to Mr. H. S. Maxim for the above particulars.

A NEW WEATHER THEORY .- The Rev. Henry Roe, F. R. A. S. (Eng.), sends to the London Times a new theory of the weather. He claims to have determined by careful observations, covering nearly ninety years, that dry | red hot, and stir the tar with it; a thick and wet periods succeed one another in smoke will rise; hold your head alternate waves of nearly equal length. Not that this equality of duration is quite absolute, or that the wave of one period is exactly the same facsimile of that of a corresponding period at an earlier or a later time; but there is enough of regularity and uniformity about the waves to make the family likeness clearly discernible to any eye that looks for it.

These periods extend over three whole years for each, and the following simple rules will enable any one to work out their several cycles of years for himself:

1. When the number representing any given year is even and exactly divisible by three, that year is the middle one of three cold and wet

the year is odd and divisible by three, then that year is the middle one of a trial of dry and hot summers.

After testing by these rules the successive seasons of the past twenty-seven years, and finding fact to conform to theory, Mr. Roe predicts that 1881 will be the middle one in a triad of hot and dry summers. What relation these dry and wet periods have (if any) to the recognized bycles of sun spots he has not made out; nor does an exami- a snuff. nation of recent aeasons confirm the alleged harmony of theory with fact.

THE UNITED STATES FOUR HOURS IN THE DARK .- It is a humiliating confession to make-but geography is pitiless, and our national vainglory must bow to its decrees-that four hours in every twenty-four the entire a principle for all. Take a family of territory of the United States is de- | children, teach them to eat fruit at prived of sunshine. As the sun goes down on our farthest Aleutian Island | tion conforms to it just as it does to toits morning rays are just lighting up the hill tops of the western coast of Ireland, and the breadth of the Atlantic | are the exception. It is true that in lies between us and daylight. To our Fenian citizens this may be another digest ought not to be taken at night. and cogent reason for annexing the dear little isle of the harp and the sidered next to suicide for a man who shamrock; but until it is done the exult- is unacclimatized. There is no better ant cry of the Rocky Mountain Presby- fruit tree for children than the Down-United States, must be admitted to be them will bear fruit for eight or ten a trifle exaggerated. It does set every | weeks steadily, constantly ripening, and day, and, paradoxically, four hours and pleasing all the fowls and turkeys, before it rises.

may possibly console ourselves with this has a fine sprightly acid taste, as the reflection that—though our British finely combined as lemonade. cousins can say with truth what we cannot—the sun really shines on the United States when it is up. We For uses of every kind, early and late, is sent free to any address, and contains have to submit to four hours of sunlessness a day: England is lucky to get apple is king. four hours of sunshina. So life has its compensations, and existence in the United States remains endurable, though perhaps four or five months of the year. we do not (geograpically syeaking) Half an acre of ground is enough for make quite so great a spread as we small fruits which can be raised easily thought. - Scientific American.

> absence of both editors, the publishers better than migrate to the next world. have succeeded in securing the ser- A small plantation of twenty-four curvices of a "gentleman" to edit the rent-bushes should be planted in the paper this week.

Leadville sign: Washing, Ironing and Going out Whitewashing, done

NOVEL USE OF ETHER. - A prisoner, named Uhlmann, recently barricaded himself in his cell at Vevy, Swifzerland and defied the gendarames to take him before the judges. It was not thought advisable to shoot him, and the court would not wait till he was starved into surrender, so ether was thrown into the cell until he became sufficiently stupefled to be harmless.

HEALTH HINTS.

HINTS FOR RELIEVING CATARRH .-1. Inhale through the nostrils a strong solution of salt in water. As strong a solution as an ounce to a pint. In this strength it is not painful, but acts as a tonic and astringent, relieving congestion. It is a mistake to suppose that salt water will cure all cases of catarrh. congestion simply, with acrid secretion, an atomizing tube should be substitute. 2. Take a piece of brimstone the size of a large pea; burn it on the stove. Close all doors and windows breathing through the nostrils. Do not get over it while it is burning, but move about, that you may get the full strength. If the room where you use it is small, commence with a slightly smaller piece, using it twice daily. 3. Inhale the smoke from pine tar. Get a pint or more of pure pine tar (not the oil) from a ship chandler; heat a poker over it keep your mouth shut, and inhale through the nostrils; heat the poker three or four times, until the room is filled with smoke, shut doors and windows, and remain in the room as long possible. In two weeks get fresh tar. It is a good plan to smoke in one's bedroom just before retiring: after smoking, open a window from the top; the smoke slowly escapes, but enough remains to be of some benefit. 4. Chloroform should be used as follows: Inhale directly from the vial first through one nostril and then the other one good full inhalation, and repeat every few moments at first; afterward decreasing in frequency, as the symptoms abate, but continuing its use at intervals for several hours. 5. Mullein leaves thoroughly dried and then used as tobacco 2. When the number representing in a pipe. The smoke should be pressed to the back of the mouth and and exhaled through the nose; once or twice a week will suffice, and should be persevered in. A little piece of sponge in the bowl of the pipe will prevent the juices from passing into the mouth. in a tumblerful of cold water; gargle night and morning, or oftener, if convenient. Or, take equal quantities of pulverized alum and loaf sugar; use as

FRUITS FOR FOOD .- There is no sense in the old familiar motto: " Fruit is gold in the morning, silver at noon, and lead at night." Because, with a limited experience, people perceive that some folks can eat fruit at one time and not another, they lay down this rule as morning, noon or night-their constitubacco or small doses of arsenic. The cases where fruit is unhealthy at night tropical climates heavy fruits difficult to Eating bananas in Cuba at night is conand cuildren and old folks. The com-In the depth of our humiliation we mon mulberry is flat and sweet; but

> If I had to choose but one fruit in all the world, I should decide for the apple. winter or summer, cooked or raw,

If a man has a small piece of ground he can furnish himself with fruit during and successfully. People, however, who want to raise fruit on the principle An Irish editor says that. "in the of not having any trouble cannot do middle of a garden, where the air can circulate all around them.

"His profession! What is his professeion?" "Madame he pedals music."



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Arrangement. 1879.

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intermediate points on Tues day, Thursday and Saturday 8.20 a. m.—Passengers and freight Mon-day, Wednesday and Friday, for Annapolis and intermediate points.

Arrive at Windsor-9.40a.m., 5.40 p.m., 11.15 p. m.

LEAVE WINDSOR: 7.00 a.m.-Express, Tuesday, Thursday and Saturday.

10.00 a. m.—Express, on arrival of train from Kentville, Monday, Wednesday and Friday. 2.00 p. m.-Passengers and Freight Tues-

6.50 - Express daily.

Arrive at Halifax 9.28 a. m.—noon,
4.50 p. m., and 8.30 p. m.

day, Thursday and Saturday.

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Summer Arrangement,

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Miles.	St. John,	do	Pass, and Freight.	Passengers & Frgt., Tues., Thurs., & Sat.	Express Daily.
31 47 59	St. John, Annapolis, Wilmot, Berwick Kentville, do Wolfville. Windsor,	Leave do Leave Arrive do Arrive	7 30 7 57	6 15 8 19 9 28 10 20 11 08 7 11 40	5 1 5 2 5 4

Steamer " Empress " leaves St. John every Monday, Wednesday and Saturday and Annapolis, to return on Tuesday, Wednesday and Saturday.

1879 SUMMER ARRANGEMENT 1879 TRAINS leave Halifax daily (Sunday

A excepted) as follows:-At 8.05 a.m. (Express) for St. John, Pictou and intermediate points. At 12.15 p.m. (Accommodation) for Pictou and intermediate points.

At 5.00 p.m. (Accommodation) for Truro and intermediate points.

At 6.15 p. m. (Express) for St John, Riviere du Loup, Quebec, Montreal, and the West.

WILL ARRIVE :-At 9.15. a. m. (Accommodation) from

At 10.35 p. m., (Express) from St. John, Riviere du Loup, Quebec, Montreal, and At 2.55 p. m. (Accommodation) from

Truro and Pictou. At 7.40 p. m., (Express) from St. John, Point du Chene, Pictou and intermédiate July 23, 1879.

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